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# MASAI LEG I PERSONNEL

Ship's Captain: Capt. Geoff Long, RRS Charles Darwin

## Personnel Participating in the Collection of Data:

Donald Olson	UM	Chief Scientist
Bruce Warren	WHOI	Co-Chief Scientist
George Knapp	WHOI	02-technician
Kevin Sullivan	UM	Freon
Leslie Pope	UM	Freon
Gary Hitchcock	NOVA	Phytoplankton
Mohamed Rabani	Pakistan/NOVA	Phytoplankton
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Kevin Speer	WHOI	Graduate student
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Russell Griffiths	NERC	Technician
Kevin Smith	NERC	Technician
Martin Beney	NERC	Technician
Chris Paulson	NERC	Technician
Graham Savidge	QUB	Nutrients
Lucinda Hubbard	QUB	Nutrients
Mohamed Al-Araimi	Oman	Observer

# MASAI LEG II PERSONNEL

Ship's Captain: Capt. Sam Mayl, RRS Charles Darwin

## Personnel Participating in the Collection of Data:

Donald Olson	UM	Chief Scientist
Bruce Warren	WHOI	Co-Chief Scientist
Robert Stanley, Jr.	WHOI	02-technician
John Morrison	NCS/UM	Scientist
Kevin Sullivan	UM	Freon
Leslie Pope	UM	Freon
Gary Hitchcock	NOVA	Phytoplankton
Javed Baquer	NIO/Pakistan	Phytoplankton
Denis Frazel	NOVA	Graduate student
Sonia Bauer	UM	Graduate student
Greg Johnson	WHOI	Graduate student
John Strangward	NERC	Hydro Technician
Stan Smith	NERC	Hydro Technician
Bill Miller	NERC	CTD Technician
Darrel Phillips	NERC	CTD Technician
Martin Beney	NERC	Computer Technician
Andrew Lord	NERC	Computer Technician
Lucinda Hubbard	QUB	Nutrient Analyst



## INTRODUCTION

### Scientific Components:

The goal of the two cruises covered in this hydrographic data report was to survey the water masses and cross- and inter-basin transports at the height of the two monsoon regimes. The first cruise from December 20, 1986 to January 18, 1987 covered the northeast or Indian winter monsoon while the second effort from July 17 to August 15, 1987 provided data during the southwest or Indian summer monsoon.

Specifically, the sampling carried out on the cruises involved standard CTD work with a complement of light (i.e. low volume) tracers, acoustic Doppler profiling of near surface currents, deployment of ARGOS surface drifters and neutral buoyant floats and a suite of biological measurements including chlorophyll profiles, primary productivity measurements and collection of phytoplankton and zooplankton samples. These were carried out on the cruise track shown at the start of each of the data sections.

A total of 116 CTD casts were made on MASAI I with 57 of these being deep casts extending to the bottom. Some deep work was lost on the first cruise due to problems in the conducting cable at approximately 4800 m. Following this, deep casts were restricted to 4500 m. The other casts were shallow, either extending to 1200 dbars (47 stations) or to 200 dbars (10 stations) in the case of productivity casts and casts taken during the float tracking.

Freons were analyzed on 334 samples prior to station 78 on MASAI I. Later samples are questionable because of a contamination problem arising from the use of penetrating oil with freon as a propellant on the rosette. This contamination problem had been relieved sufficiently to allow an additional 13 samples with enough precision to consider the near surface layers. Some of the intermediate runs may be uncontaminated enough for use also.

On MASAI II a total of 120 CTD casts were made along the track with 55 of these being deep casts extending to the bottom. The remaining casts were shallow, either extending to 1200 dbars (47 stations) or to 200 dbars (10 stations) in the case of productivity casts and casts taken during the float tracking. Oxygen, salinity and nutrient samples were taken at nine depths on most of the casts due to the loss of three 10-liter Niskins early in the cruise. An attempt to receive additional bottles in Mogadishu was unsuccessful because of US customs problems with bottles provided by Scripps. The CTDs provided problems throughout the cruise. A damaged conductivity sensor, tied to the CTD being placed on the sea floor on the previous cruise, slowly degraded until it required replacement. Spare sensors were extremely old and of poor quality. The last line of deep stations was done without continuous conductivity for all practical purposes. The last line of shallow stations were completed with a third sensor which performed well above 1200 m but which had extreme hysteresis when taken to full depth. Along-track data included fluorescence and surface thermo-salinograph records.

Freons analysis on the second cruise included 3272 chromatographic runs. The unit worked fairly well throughout the cruise. Instrument blanks were

uniformly higher than on the previous cruise. A total of 80 samples were taken for analysis of tritium and helium-3 on selected casts. A total of eight 200 m plankton tows with a half meter net were also completed off the Somali coast and in the Arabian Sea.

An RDI acoustic Doppler current profiler was run nearly continuously throughout both cruises. Except during the float experiments, the system was set up on ten-minute averaging. For the twenty-four hours of the isopycnal float experiment, it was set for one-minute ensembles.

Ten ARGOS-tracked surface drifters were launched along the winter cruise track. These are the final deployments of a set of 40 units launched as part of this program and an associated NOAA/AOML effort. The total trajectories to date are shown in Fig. 2. On all but two of the deployments on the cruise, dye packets were attached to the units and the evolution of the streak of dye followed for approximately fifteen to thirty minutes in order to obtain estimates of the slippage between the drifter and the surface fluid. Of the others, one was a night launch together with the isopycnal float and the final unit launched without a dye packet so that the packet could be used for an experiment with a patch of dye free from a drifter. Five similar drift tests of a prototype METOCEAN air-deployable ARGOS drifter were completed in wind and sea states up to force six on the second cruise.

Isopycnal float launches were made along the Somali coast on both cruises. This unit was successfully followed by keeping the ship within a kilometer radius of the float during this period.

#### Data Quality:

Oxygen, salinity and nutrient samples were taken at nine through twelve depths on most casts. Bottle salts and oxygens showed exceptional precision with accuracy in the deep waters to 0.001 in salinity and to 0.02 ml/l in oxygen relative to standards. The CTD performed well throughout the first cruise.

The nutrients were not of such high quality. Lack of accuracy in the deep water is evident as shifts in the nitrate/ $\theta$  curves from station to station. For this reason it was decided to drop the nutrients from the following tabulations of the data. Fluorometer records have been calibrated with discrete samples taken during the bottle casts and are summarized in a separate technical report that is available from G. Hitchcock at NOVA University.

The raw CTD data was processed using NERC supplied calibration data and bottle salts and oxygens. On MASAI I individual station regressions were done on lag corrected sensor data to the bottle data. Where shallow stations did not provide adequate bottle data, the regressions for surrounding stations were used. The residuals were weighted by the reciprocal of the variance expected due to the salinity/oxygen gradients and an assumed ship roll standard deviation of 2 meters. This was done to improve the fit in the high reliability regions of the trace. Residuals for salinity had a standard deviation of 0.001 at pressures greater than

1500 dbars and 0.011 in the upper layers. Similar statistics for the oxygen probe data are 0.02 ml/l and 0.15 ml/l respectively. Much of the upper variation is tied to the large gradients in oxygen and salinity in the basin rather than sensor problems.

The second cruise suffered from an aged oxygen sensor and the conductivity problems discussed above. Due to bottle loss, the stations were regressed in sets of ten. The resulting fits are as follows for the deep data ( $p > 1500$ ):

---

<u>Station</u>	<u><math>\delta S</math></u>	<u><math>\delta O_2</math></u>
1-10	0.002	0.07
11-20	0.004	0.10
21-30	0.002	0.06
31-40	0.001	0.08
41-50	0.002	0.08
51-60	0.002	0.12
61-70	0.049	0.05
71-80	0.192	0.05
81-90	0.210	0.05
91-99	0.246	0.03
100-110	0.006	0.04
111-120	0.007	0.04

---

Data from the CTD was dropped for stations 65 through 99 due to lack of good salinities.

#### Tabular Data:

The tabular data includes CTD values at standard depths in the first section followed by the bottle data. The header gives the cruise number, station number, latitude, longitude, date and GMT time at the bottom of the cast. For stations on which it was available, the sonic depth is also given. These are corrected using standard tables for the region. The tabular data includes pressure, temperature, salinity, oxygen in ml/l and in micro-moles per kilogram, oxygen percent saturation, potential temperature ( $\theta$ ), density anomalies with respect to the surface, 2000 dbars

and 4000 dbars, dynamic depth, Brunt-Vaisala frequency and depth. The bottle data includes the same with the exception of dynamic height and stability. All computations make use of the new international standard algorithms for salinity and equation of state (UNESCO 1981). Algorithms have been cross-checked with SIO and WHOI processing results.

#### Acknowledgements:

The success of the CTD work would have been impossible without the excellent help of the NERC/RVS technical team. In particular, all four of the electronic and computer technicians spent long hours working on the CTD system in attempts to fix the conductivity problem. Finally, the bridge and deck personnel provided superb support for the station work and drifter and float deployments.

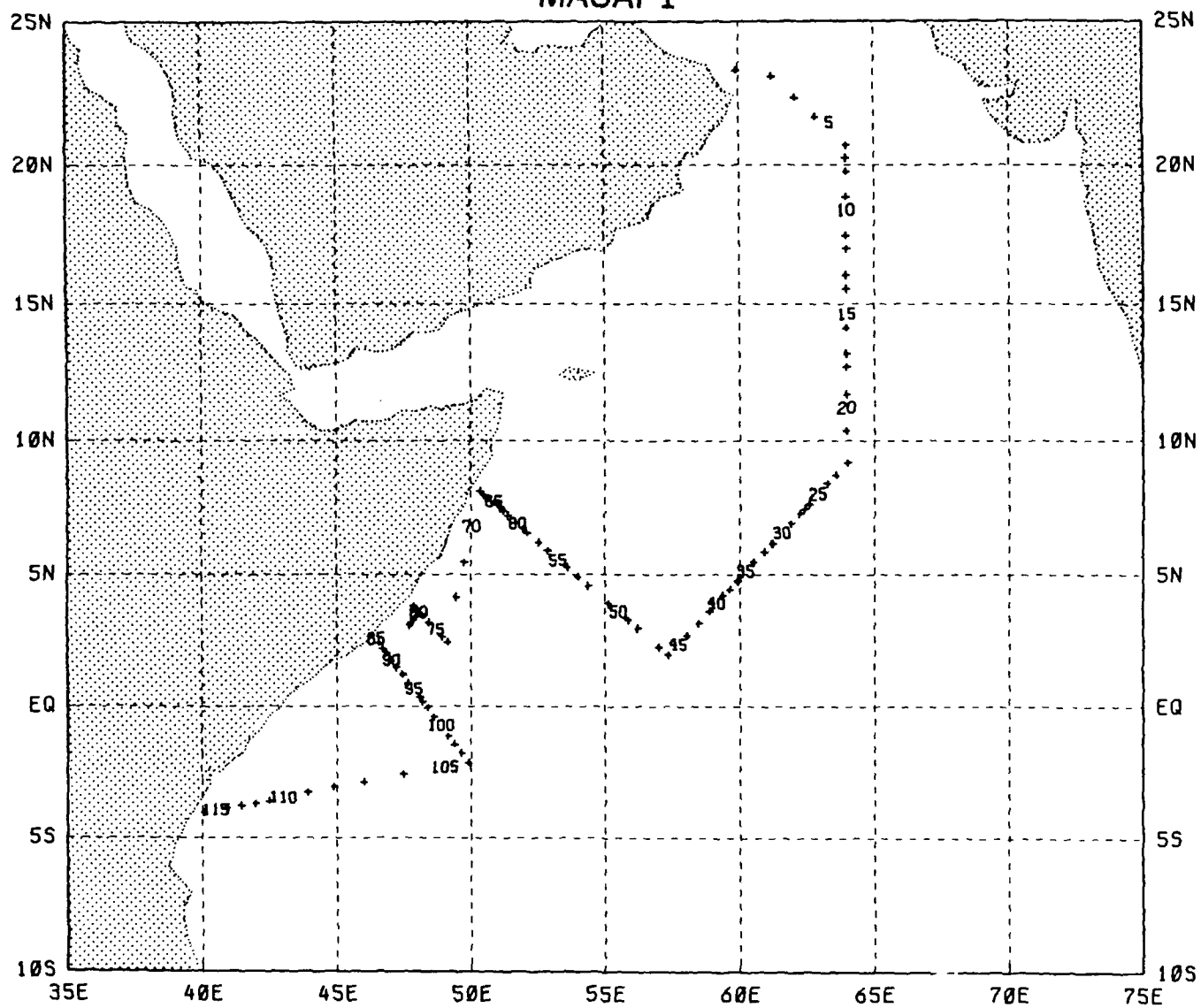
Funding for the cruise was from the U.S. National Science Foundation through grant numbers OCE8800135 and OCE8513825 to University of Miami (Olson) and the U.S. Office of Naval Research through grant number N00014-87-K-0001, NR083-004 to Woods Hole Oceanographic Institution (Warren) and NOVA grant number N00014-87-K-0040 (Hitchcock). Additional funds for the nutrient analysis and backup CTD support were provided through NSF grant number OCE86-14497 to WHOI (Toole and Warren).

# **MASAI I**

**Tabulated Stations 1-116**

**CTD and Bottle Data**

# MASAI I



CDARWIN 19  
DATE: 12/20/86

STA: 1

LAT: 23° 21.7N  
TIME: 1426

LON: 69° 56.9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	23.701	36.855	4.69	209.2	98.0	23.700	25.138	33.460	41.426	0.017	---	6
10	23.708	36.856	4.61	206.0	96.5	23.706	25.136	33.459	41.425	0.028	4.05	10
20	23.689	36.866	4.57	203.8	95.5	23.685	25.151	33.473	41.440	0.056	4.44	20
30	23.723	36.923	3.71	165.8	77.7	23.717	25.184	33.505	41.470	0.084	4.82	30
40	23.701	36.928	2.77	123.5	57.9	23.693	25.195	33.516	41.483	0.112	5.21	40
50	23.406	36.864	0.81	27.0	12.6	23.396	25.234	33.564	41.538	0.140	5.62	50
60	19.587	36.226	0.09	4.1	1.8	19.576	25.810	34.258	42.343	0.165	5.83	60
74	19.137	36.199	0.08	3.4	1.5	19.124	25.908	34.370	42.468	0.195	5.92	74
100	18.582	36.348	0.07	3.3	1.4	18.564	26.165	34.643	42.755	0.247	5.62	100
124	18.033	36.409	0.07	3.2	1.3	18.011	26.350	34.845	42.973	0.290	5.01	124
150	17.475	36.472	0.08	3.6	1.5	17.450	26.537	35.049	43.194	0.332	4.56	150
174	16.574	36.371	0.08	3.3	1.4	16.546	26.676	35.220	43.394	0.368	4.16	174
200	15.562	36.234	0.07	3.1	1.3	15.531	26.805	35.386	43.595	0.403	3.63	200
224	14.805	36.115	0.05	2.4	1.0	14.771	26.884	35.493	43.728	0.434	3.16	224
250	14.200	36.038	0.06	2.8	1.1	14.163	26.956	35.588	43.845	0.465	2.68	250
274	13.808	35.974	0.06	2.7	1.1	13.768	26.990	35.638	43.909	0.492	2.32	274
300	13.333	35.898	0.06	2.6	1.0	13.290	27.030	35.697	43.986	0.522	2.08	299
350	12.684	35.794	0.06	2.5	0.9	12.636	27.082	35.775	44.089	0.576	1.88	349
400	12.086	35.708	0.05	2.4	0.9	12.033	27.133	35.851	44.188	0.629	1.70	399
450	11.707	35.660	0.05	2.4	0.9	11.648	27.170	35.904	44.255	0.680	1.57	449
500	11.400	35.632	0.05	2.3	0.9	11.336	27.207	35.953	44.317	0.730	1.54	499
600	10.776	35.582	0.05	2.3	0.8	10.701	27.283	36.056	44.445	0.826	1.55	599
700	10.152	35.532	0.05	2.2	0.8	10.067	27.357	36.157	44.571	0.916	1.46	699
800	9.354	35.468	0.05	2.1	0.7	9.261	27.443	36.278	44.726	1.001	1.77	799
900	8.845	35.415	0.06	2.6	0.9	8.744	27.484	36.343	44.812	1.080	1.28	899
1000	8.169	35.344	0.09	4.1	1.4	8.061	27.535	36.425	44.924	1.156	1.32	999
1196	6.926	35.214	0.35	15.8	5.2	6.806	27.615	36.564	45.119	1.295	---	1195

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	23.573	36.870	4.40	196.4	91.8	23.568	25.188	33.513	41.483	23
74	18.985	36.487	0.06	2.7	1.1	18.972	26.167	34.630	42.729	74
99	18.679	36.367	0.12	5.4	2.3	18.662	26.154	34.629	42.738	98
149	17.599	36.478	0.06	2.7	1.1	17.574	26.511	35.019	43.160	148
199	15.707	36.257	0.05	2.2	0.9	15.676	26.790	35.366	43.569	198
299	13.409	35.915	---	---	---	13.366	27.028	35.691	43.978	299
399	12.089	35.713	0.06	2.7	1.0	12.036	27.137	35.854	44.191	398
500	11.293	35.634	0.05	2.2	0.8	11.229	27.228	35.979	44.347	499
599	10.779	35.583	0.05	2.2	0.8	10.704	27.284	36.057	44.445	598
799	9.483	35.468	0.06	2.7	0.9	9.390	27.421	36.251	44.693	798
999	8.195	35.349	0.09	4.0	1.4	8.087	27.535	36.424	44.921	998
1199	6.907	---	0.36	16.1	2.2	---	---	---	---	---

CDARWIN 19  
DATE: 12/21/86

STA: 2

LAT: 23° 9.6N  
TIME: 2333

LON: 61° 15.4E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	24.183	36.692	4.65	207.7	98.0	24.182	24.870	33.182	41.133	0.012	---	4
10	24.188	36.692	4.55	203.2	95.9	24.186	24.869	33.180	41.137	0.031	3.87	10
20	24.193	36.692	4.56	203.8	96.2	24.189	24.868	33.179	41.136	0.062	4.29	20
30	24.198	36.694	4.61	205.7	97.1	24.192	24.869	33.180	41.136	0.092	4.72	30
40	24.199	36.695	4.63	206.7	97.6	24.191	24.870	33.181	41.137	0.123	5.16	40
50	23.910	36.636	4.38	195.7	91.9	23.899	24.912	33.232	41.196	0.154	5.62	50
60	21.340	36.262	1.00	44.6	20.0	21.328	25.366	33.761	41.796	0.182	5.91	60
74	20.158	36.187	0.30	13.4	5.9	20.144	25.630	34.062	42.130	0.217	6.10	74
100	19.129	36.119	0.12	5.2	2.2	19.111	25.850	34.313	42.412	0.276	5.74	100
124	18.722	36.209	0.12	5.2	2.2	18.700	26.023	34.499	42.609	0.327	5.15	124
150	18.367	36.412	0.23	10.1	4.3	18.341	26.270	34.755	42.873	0.376	4.63	150
174	17.986	36.452	0.19	8.6	3.6	17.956	26.397	34.893	43.023	0.417	4.21	174
200	17.716	36.527	0.30	13.6	5.7	17.682	26.522	35.026	43.163	0.459	3.71	200
224	17.044	36.432	0.19	8.5	3.5	17.007	26.613	35.141	43.300	0.496	3.35	224
250	16.571	36.391	0.18	7.9	3.2	16.530	26.695	35.240	43.414	0.534	3.08	249
274	15.995	36.309	0.15	6.8	2.8	15.951	26.767	35.332	43.527	0.568	2.89	273
300	15.453	36.215	0.12	5.3	2.1	15.406	26.819	35.405	43.618	0.603	2.69	299
350	14.193	35.988	0.06	2.6	1.0	14.141	26.922	35.556	43.814	0.666	2.32	349
400	13.570	35.904	0.06	2.5	1.0	13.512	26.990	35.648	43.929	0.727	2.02	399
450	13.034	35.827	0.05	2.5	0.9	12.971	27.040	35.720	44.021	0.785	1.94	449
500	12.444	35.748	0.05	2.4	0.9	12.376	27.098	35.801	44.125	0.841	1.91	499
500	11.494	35.634	0.05	2.2	0.8	11.416	27.193	35.936	44.297	0.946	1.74	599
700	10.760	35.575	0.05	2.1	0.8	10.672	27.284	36.058	44.448	1.045	1.73	699
800	10.021	35.512	0.05	2.1	0.7	9.925	27.365	36.171	44.592	1.138	1.69	799
900	9.249	35.444	0.04	2.0	0.7	9.145	27.442	36.283	44.736	1.224	1.55	899
1000	8.513	35.369	0.06	2.9	1.0	8.402	27.502	36.377	44.861	1.304	1.49	999
1200	7.195	35.228	0.24	10.7	3.6	7.072	27.589	36.526	45.068	1.452	1.01	1199
1226	6.999	35.207	0.28	12.7	4.2	6.875	27.600	36.546	45.097	1.470	---	1225

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	24.185	36.696	4.55	203.1	95.9	24.180	24.874	33.185	41.142	24
74	20.173	36.218	0.22	9.8	4.3	20.159	25.650	34.080	42.148	73
99	19.081	36.100	0.07	3.1	1.3	19.063	25.847	34.313	42.413	99
149	18.393	36.413	0.18	8.0	3.4	18.367	26.264	34.748	42.865	148
198	18.324	36.742	0.26	11.6	4.9	18.289	26.536	35.018	43.134	198
298	15.422	---	0.08	3.6	0.6	---	---	---	---	---
398	13.627	35.917	0.07	3.1	1.2	13.570	26.987	35.643	43.922	397
499	12.473	35.756	0.05	2.2	0.8	12.405	27.098	35.801	44.124	498
598	11.555	35.639	0.03	1.3	0.5	11.477	27.186	35.926	44.285	597
800	10.065	35.524	0.05	2.2	0.8	9.968	27.367	36.172	44.590	799
1000	8.537	35.381	0.06	2.7	0.9	8.426	27.508	36.381	44.864	999
1230	6.969	35.210	0.27	12.1	4.0	6.845	27.606	36.554	45.106	---



CDARWIN 19  
DATE: 12/21/86

STA: 3

TIME: 0711

LAT: 22° 23.9N

LON: 62° 7 1E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	25.523	36.405	5.03	224.6	108.3	25.522	24.244	32.524	40.452	0.015	---	4
10	25.523	36.405	5.01	223.6	107.8	25.521	24.245	32.525	40.452	0.037	4.75	10
20	25.506	36.407	4.96	221.4	106.7	25.502	24.252	32.533	40.460	0.073	5.23	20
30	25.490	36.411	4.95	220.9	106.4	25.483	24.261	32.542	40.470	0.110	5.70	30
40	25.255	36.405	5.06	225.7	108.3	25.246	24.330	32.617	40.550	0.146	6.14	40
50	24.988	36.367	4.89	218.3	104.2	24.977	24.384	32.678	40.618	0.182	6.63	50
60	21.846	36.039	1.91	85.1	38.4	21.834	25.055	33.439	41.463	0.214	6.87	60
74	20.718	36.059	0.90	40.1	17.7	20.704	25.382	33.798	41.853	0.253	7.00	74
100	19.955	36.104	0.12	5.2	2.3	19.937	25.622	34.061	42.136	0.318	6.43	100
124	19.278	36.173	0.11	4.8	2.1	19.256	25.853	34.311	42.406	0.373	5.66	124
150	19.269	36.519	0.34	15.4	6.6	19.242	26.122	34.576	42.667	0.426	5.07	150
174	17.383	36.151	0.25	10.9	4.5	17.354	26.314	34.833	42.985	0.471	4.60	174
200	16.963	36.158	0.25	11.0	4.5	16.930	26.421	34.955	43.120	0.516	3.94	199
224	17.112	36.362	0.25	10.9	4.5	17.075	26.543	35.070	43.227	0.554	3.50	223
250	17.083	36.445	0.32	14.1	5.8	17.041	26.615	35.141	43.299	0.594	3.22	249
274	16.815	36.460	0.30	13.6	5.6	16.770	26.691	35.226	43.393	0.630	3.07	273
300	15.776	36.246	0.19	8.4	3.4	15.728	26.770	35.343	43.545	0.666	2.84	299
350	14.976	36.116	0.13	5.9	2.3	14.922	26.850	35.454	43.684	0.733	2.35	349
400	13.677	35.861	0.10	4.5	1.7	13.619	26.933	35.588	43.866	0.796	2.15	399
450	13.083	35.789	0.10	4.6	1.7	13.020	27.001	35.680	43.980	0.857	2.06	449
500	12.568	35.721	0.13	5.6	2.1	12.500	27.052	35.752	44.071	0.915	1.89	499
600	11.740	35.649	0.09	4.1	1.5	11.661	27.159	35.892	44.244	1.025	1.80	599
700	11.015	35.599	0.09	4.1	1.5	10.926	27.256	36.020	44.400	1.127	1.86	699
800	10.349	35.546	0.09	4.1	1.5	10.251	27.335	36.128	44.534	1.222	1.41	799
900	9.877	35.505	0.09	4.1	1.4	9.769	27.386	36.200	44.626	1.313	1.57	899
1000	9.089	35.431	0.13	5.7	2.0	8.974	27.461	36.309	44.768	1.399	1.57	999
1196	7.856	35.301	0.21	9.4	3.2	7.728	27.551	36.457	44.970	1.554	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
25	25.486	36.411	4.71	210.3	101.3	25.480	24.262	32.543	40.471	25
65	21.697	36.042	1.30	58.0	26.1	21.684	25.100	33.487	41.515	65
100	19.925	36.112	0.17	7.6	3.3	19.907	25.636	34.076	42.152	99
124	19.181	36.178	0.06	2.7	1.2	19.159	25.882	34.344	42.441	123
157	19.234	36.524	0.27	12.1	5.2	19.205	26.135	34.590	42.682	157
259	17.028	36.443	0.33	14.7	6.1	16.985	26.627	35.155	43.315	258
400	13.592	35.841	0.12	5.4	2.1	13.535	26.936	35.594	43.875	399
498	12.556	35.718	---	---	---	12.488	27.052	35.752	44.072	497
598	11.767	35.655	0.06	2.7	1.0	11.688	27.158	35.890	44.241	597
796	10.370	35.547	0.08	3.6	1.3	10.272	27.332	36.124	44.530	795
999	9.131	35.440	0.10	4.5	1.6	9.016	27.461	36.307	44.765	998
1199	7.818	35.299	0.24	10.7	3.6	7.690	27.555	36.463	44.978	---

CDARWIN 19  
DATE: 12/21/86

STA: 4

TIME: 1423

LAT: 21° 42.9N

LON: 62° 52.6E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.249	36.414	4.83	216.8	103.5	25.248	24.336	32.623	40.558	0.014	---	4
10	25.243	36.416	4.68	209.0	100.3	25.241	24.340	32.627	40.560	0.036	0.31	10
20	25.255	36.416	4.73	211.1	101.3	25.251	24.337	32.623	40.557	0.072	0.76	20
30	25.254	36.415	4.69	209.5	100.5	25.247	24.337	32.624	40.557	0.108	1.70	30
40	25.247	36.411	4.66	207.9	99.8	25.238	24.337	32.624	40.558	0.144	2.56	40
50	25.232	36.407	4.75	212.1	101.7	25.221	24.339	32.626	40.561	0.180	3.32	50
60	25.216	36.404	4.84	216.3	103.7	25.203	24.342	32.630	40.565	0.216	4.02	60
74	25.210	36.404	4.72	210.6	101.0	25.194	24.345	32.633	40.568	0.266	5.02	74
100	22.806	35.911	3.29	147.1	67.4	22.786	24.688	33.046	41.046	0.358	6.42	100
124	21.825	36.266	1.11	49.4	22.3	21.800	25.237	33.619	41.641	0.430	6.56	124
150	20.409	36.100	0.38	17.1	7.5	20.381	25.501	33.926	41.989	0.498	6.10	150
174	18.875	35.850	0.09	4.1	1.7	18.844	25.712	34.188	42.298	0.557	5.42	173
200	17.861	35.812	0.09	4.0	1.7	17.827	25.938	34.446	42.587	0.614	4.97	199
224	17.395	35.923	0.09	4.0	1.6	17.357	26.138	34.661	42.815	0.663	4.70	223
250	16.398	35.805	0.16	7.0	2.9	16.357	26.285	34.843	43.030	0.712	4.40	249
274	16.821	36.153	0.09	3.9	1.6	16.776	26.454	34.993	43.163	0.754	4.12	273
300	16.399	36.190	0.06	2.9	1.2	16.350	26.583	35.136	43.319	0.796	3.79	299
350	15.249	36.065	0.06	2.8	1.1	15.195	26.751	35.346	43.567	0.869	3.07	349
400	14.339	35.946	0.06	2.8	1.1	14.279	26.860	35.489	43.743	0.937	2.47	399
450	13.667	35.871	0.06	2.7	1.0	13.602	26.945	35.600	43.878	1.000	2.12	449
500	13.245	35.830	0.06	2.7	1.0	13.174	27.001	35.673	43.967	1.061	1.84	499
600	12.241	35.707	0.06	2.6	1.0	12.160	27.108	35.821	44.154	1.177	1.88	599
700	11.405	35.625	0.06	2.6	1.0	11.314	27.205	35.952	44.317	1.284	1.76	699
800	10.699	35.564	0.06	2.5	0.9	10.599	27.288	36.066	44.459	1.385	1.73	799
900	10.006	35.515	0.06	2.5	0.9	9.897	27.372	36.180	44.601	1.479	1.70	899
1000	9.189	35.437	0.05	2.5	0.9	9.073	27.449	36.293	44.748	1.567	1.62	998
1196	7.665	35.279	0.17	7.5	2.5	7.539	27.562	36.477	44.998	1.721	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
25	25.230	---	---	---	---	---	---	---	---	---
75	25.213	36.404	4.63	206.7	99.1	25.197	24.344	32.633	40.567	74
98	23.726	36.291	4.14	184.8	86.3	23.705	24.708	33.037	41.009	98
148	20.601	35.162	0.42	18.8	8.3	20.573	25.496	33.915	41.972	147
198	18.241	36.862	0.05	2.2	0.9	18.206	26.648	35.132	43.249	197
299	16.619	36.213	0.05	2.2	0.9	16.570	26.549	35.094	43.270	298
399	14.441	35.969	0.04	1.8	0.7	14.381	26.855	35.481	43.731	398
499	13.258	35.842	0.08	3.6	1.4	13.187	27.008	35.679	43.973	498
599	12.269	35.719	0.04	1.8	0.7	12.188	27.112	35.824	44.155	598
801	10.740	35.568	---	---	---	10.639	27.284	36.060	44.451	800
998	9.217	35.441	0.06	2.7	0.9	9.101	27.448	36.290	44.744	997
1199	7.635	35.278	0.18	8.0	2.7	7.509	27.566	36.482	45.004	---

CDARWIN 19  
DATE: 12/21/86

STA: 5

LAT: 21° 30.0N  
TIME: 1946

LON: 63° 24.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.015	36.397	4.52	201.8	96.4	25.014	24.395	32.689	40.628	0.021	---	6
10	25.008	36.397	4.43	197.6	94.4	25.006	24.398	32.691	40.630	0.035	-0.31	10
20	25.016	36.397	4.19	187.0	89.4	25.012	24.396	32.689	40.628	0.070	1.39	20
30	25.019	36.394	4.31	192.2	91.9	25.013	24.393	32.687	40.626	0.106	2.42	30
40	25.026	36.397	4.23	189.0	90.3	25.017	24.394	32.687	40.627	0.141	3.17	40
50	25.023	36.396	4.40	196.3	93.8	25.012	24.395	32.688	40.628	0.177	3.81	50
60	25.020	36.394	4.21	187.8	89.7	25.007	24.395	32.689	40.628	0.212	4.46	60
74	25.030	36.397	4.34	193.5	92.5	25.014	24.395	32.689	40.628	0.262	5.43	74
100	22.324	36.180	1.27	56.7	25.8	22.304	25.030	33.399	41.408	0.349	6.55	100
124	20.993	36.093	0.53	23.8	10.6	20.969	25.336	33.744	41.791	0.417	6.45	124
150	19.588	35.962	0.04	1.9	0.8	19.561	25.613	34.064	42.153	0.483	5.85	150
174	18.233	35.828	0.01	0.6	0.2	18.203	25.857	34.353	42.483	0.538	5.13	173
200	17.687	35.878	0.02	0.8	0.3	17.653	26.031	34.545	42.690	0.593	4.70	199
224	17.505	36.011	0.03	1.3	0.6	17.467	26.178	34.696	42.846	0.641	4.52	223
250	17.709	36.292	0.11	4.7	2.0	17.666	26.346	34.853	42.994	0.688	4.33	249
274	17.212	36.316	0.11	4.9	2.0	17.166	26.486	35.010	43.165	0.729	4.16	273
300	16.309	36.241	0.05	2.8	1.1	16.260	26.643	35.199	43.384	0.769	3.79	299
350	15.500	36.197	0.04	2.0	0.8	15.445	26.796	35.380	43.592	0.840	3.09	349
400	14.211	35.992	0.05	2.1	0.8	14.152	26.923	35.556	43.814	0.905	2.49	399
450	13.554	35.900	0.04	1.7	0.7	13.489	26.991	35.650	43.932	0.966	1.77	449
500	13.248	35.849	0.04	1.6	0.6	13.177	27.016	35.688	43.981	1.025	1.89	499
600	11.934	35.681	0.04	1.9	0.7	11.854	27.146	35.872	44.216	1.137	1.77	599
700	11.182	35.609	0.04	1.9	0.7	11.092	27.234	35.990	44.364	1.242	1.73	699
800	10.508	35.556	0.04	1.7	0.6	10.409	27.316	36.101	44.502	1.340	1.70	799
900	9.758	35.489	0.05	2.2	0.8	9.651	27.394	36.212	44.644	1.431	1.69	899
1000	8.994	35.415	0.06	2.7	0.9	8.880	27.463	36.316	44.779	1.516	1.51	999
1196	7.581	35.258	0.21	9.4	3.2	7.455	27.558	36.477	45.002	1.670	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	25.018	36.399	4.50	200.9	96.0	25.013	24.397	32.690	40.629	23
73	24.990	36.392	4.61	205.8	98.3	24.974	24.403	32.698	40.638	73
99	22.223	36.164	1.13	50.4	22.9	22.203	25.047	33.418	41.431	98
148	19.331	35.901	0.16	7.1	3.1	19.304	25.633	34.093	42.189	148
198	17.795	35.924	0.01	0.4	0.2	17.761	26.040	34.549	42.691	198
274	17.166	36.316	0.08	3.6	1.5	17.120	26.497	35.022	43.179	273
399	14.251	35.998	0.05	2.2	0.9	14.192	26.919	35.550	43.807	398
474	13.470	35.887	---	---	---	13.402	26.999	35.661	43.947	473
599	12.021	35.690	0.03	1.3	0.5	11.941	27.137	35.859	44.199	597
798	10.521	35.557	0.05	2.2	0.8	10.422	27.314	36.099	44.499	797
999	9.006	35.421	0.06	2.7	0.9	8.892	27.466	36.318	44.781	997
1199	7.534	35.265	0.20	8.9	3.0	7.408	27.570	36.491	45.018	---

CDARWIN 19  
DATE: 12/22/86

STA: 6

LAT: 20° 43.0N  
TIME: 0123

LON: 64° 0.2E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	24.970	36.657	4.64	207.2	99.1	24.969	24.605	32.897	40.834	0.013	---	4
10	24.977	36.657	4.55	203.2	97.2	24.975	24.604	32.895	40.832	0.033	2.59	10
20	24.981	36.657	4.50	200.8	96.0	24.977	24.603	32.894	40.832	0.067	3.08	20
30	24.982	36.657	4.61	205.9	98.5	24.975	24.603	32.894	40.832	0.100	3.53	30
40	24.984	36.657	4.59	204.9	98.0	24.975	24.603	32.895	40.832	0.133	3.99	40
50	24.985	36.657	4.63	206.5	98.8	24.974	24.604	32.895	40.832	0.167	4.49	50
60	24.986	36.658	4.60	205.5	98.3	24.973	24.605	32.896	40.834	0.200	5.03	60
74	22.680	36.404	1.73	77.4	35.5	22.665	25.097	33.453	41.451	0.245	5.63	74
100	21.942	36.364	1.45	64.6	29.3	21.922	25.278	33.655	41.673	0.318	5.74	100
124	20.617	36.191	0.59	26.3	11.6	20.593	25.513	33.930	41.986	0.381	5.61	124
150	19.253	36.017	0.10	4.6	2.0	19.226	25.742	34.203	42.300	0.443	5.34	150
174	18.209	35.983	0.07	3.3	1.4	18.179	25.982	34.476	42.605	0.496	5.30	174
200	17.618	36.115	0.07	3.2	1.3	17.584	26.230	34.742	42.887	0.548	5.04	199
224	17.200	36.201	0.06	2.7	1.1	17.162	26.398	34.924	43.081	0.590	4.61	223
250	16.613	36.217	0.06	2.5	1.0	16.572	26.552	35.097	43.272	0.632	4.07	249
274	16.209	36.217	0.06	2.5	1.0	16.165	26.647	35.206	43.394	0.669	3.60	273
300	15.592	36.156	0.05	2.4	1.0	15.545	26.743	35.324	43.533	0.706	3.22	299
350	14.474	36.002	0.04	1.7	0.7	14.422	26.872	35.496	43.744	0.773	2.67	349
400	13.719	35.905	0.04	1.7	0.7	13.661	26.959	35.612	43.888	0.835	2.21	399
450	13.128	35.827	0.04	1.7	0.6	13.065	27.022	35.698	43.996	0.894	1.94	449
500	12.642	35.759	0.04	1.8	0.7	12.573	27.067	35.763	44.080	0.952	1.85	499
600	11.708	35.651	0.03	1.5	0.5	11.629	27.166	35.901	44.253	1.061	1.89	599
700	10.913	35.586	0.04	1.7	0.6	10.825	27.265	36.033	44.417	1.162	1.72	699
800	10.147	35.525	0.06	2.5	0.9	10.050	27.354	36.155	44.570	1.256	1.76	799
900	9.295	35.445	0.05	2.2	0.8	9.191	27.436	36.275	44.725	1.343	1.59	899
1000	8.618	35.378	0.08	3.6	1.2	8.507	27.493	36.363	44.842	1.424	1.42	999
1200	7.217	35.230	0.30	13.2	4.4	7.094	27.587	36.523	45.064	1.573	1.16	1198
1252	6.963	35.205	0.41	18.5	6.1	6.837	27.603	36.551	45.104	1.609	---	1250

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
23	24.946	36.659	4.40	196.4	93.9	24.941	24.616	32.908	40.846	23
74	22.702	36.403	1.40	62.5	28.7	22.687	25.090	33.445	41.443	73
99	22.115	36.383	1.23	54.9	24.9	22.095	25.244	33.616	41.629	99
149	19.422	36.038	0.04	1.8	0.8	19.395	25.714	34.170	42.262	149
199	17.550	36.086	---	---	---	17.516	26.224	34.740	42.887	199
274	15.964	36.201	0.04	1.8	0.7	15.920	26.691	35.259	43.455	274
399	13.678	35.907	0.01	0.4	0.2	13.620	26.969	35.623	43.901	398
499	12.692	35.763	0.02	0.9	0.3	12.623	27.060	35.755	44.069	498
599	11.794	35.662	0.03	1.3	0.5	11.715	27.159	35.890	44.239	598
800	10.207	35.532	0.03	1.3	0.5	10.110	27.349	36.147	44.560	798
1000	8.616	35.380	0.09	4.0	1.4	8.505	27.495	36.365	44.844	998
1199	7.216	35.230	0.24	10.7	3.6	7.093	27.587	36.523	45.065	1198

CDARWIN 19  
DATE: 12/22/86

STA: 7  
TIME: 0615

LAT: 20° 17.1N

LON: 63° 59.5E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	24.884	36.591	4.69	209.3	99.9	24.893	24.582	32.370	40.816	0.020	---	6
10	24.884	36.595	4.69	209.4	99.9	24.882	24.585	32.879	40.820	0.033	2.77	10
20	24.886	36.595	4.61	205.8	98.2	24.882	24.585	32.879	40.820	0.067	3.29	20
30	24.886	36.596	4.72	210.5	100.5	24.880	24.587	32.881	40.821	0.100	3.72	30
40	24.885	36.596	4.74	211.6	101.0	24.876	24.587	32.882	40.822	0.134	4.17	40
50	24.887	36.596	4.71	210.1	100.3	24.876	24.588	32.882	40.822	0.168	4.62	50
60	24.873	36.594	4.75	212.2	101.3	24.860	24.591	32.886	40.827	0.201	5.12	60
74	22.438	36.306	1.67	74.6	34.1	22.423	25.092	33.455	41.461	0.245	5.66	74
100	21.554	36.278	1.11	49.6	22.3	21.534	25.321	33.710	41.740	0.318	5.73	100
124	20.743	36.210	0.73	32.4	14.3	20.719	25.493	33.907	41.959	0.380	5.58	124
150	19.322	36.036	0.13	5.6	2.4	19.295	25.738	34.197	42.292	0.443	5.26	150
174	18.025	35.907	0.08	3.8	1.6	17.995	25.969	34.471	42.606	0.496	5.15	174
200	17.178	35.932	0.08	3.6	1.5	17.144	26.196	34.725	42.886	0.547	4.85	199
224	16.559	35.934	0.07	3.0	1.2	16.522	26.346	34.896	43.076	0.591	4.55	223
250	15.991	35.974	0.07	2.9	1.2	15.951	26.510	35.079	43.277	0.634	4.17	249
274	15.852	36.087	0.07	3.0	1.2	15.808	26.629	35.202	43.403	0.671	3.80	273
300	15.491	36.127	0.07	3.1	1.2	15.444	26.743	35.328	43.541	0.708	3.36	299
350	14.523	36.005	0.07	3.0	1.2	14.470	26.864	35.486	43.733	0.775	2.62	349
400	13.786	35.917	0.07	3.0	1.2	13.728	26.954	35.604	43.878	0.838	2.26	399
450	13.070	35.814	0.07	3.1	1.2	13.007	27.023	35.702	44.002	0.897	2.02	449
500	12.499	35.737	0.07	3.2	1.2	12.431	27.078	35.780	44.102	0.954	1.91	499
600	11.693	35.650	0.08	3.4	1.3	11.614	27.169	35.904	44.257	1.062	1.72	599
700	10.876	35.582	0.08	3.8	1.4	10.787	27.268	36.037	44.423	1.163	1.84	699
800	10.139	35.527	0.09	4.1	1.4	10.042	27.357	36.158	44.573	1.256	1.69	799
900	9.315	35.449	0.11	4.8	1.7	9.211	27.436	36.274	44.724	1.343	1.59	899
1000	8.621	35.383	0.14	6.2	2.1	8.510	27.497	36.367	44.846	1.424	1.51	999
1196	7.313	35.242	0.32	14.1	4.7	7.190	27.583	36.515	45.052	1.570	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	24.890	36.594	4.46	199.1	95.0	24.885	24.583	32.878	40.818	24
74	22.629	36.359	1.33	59.4	27.2	22.614	25.078	33.435	41.435	74
99	21.611	36.302	0.87	38.8	17.5	21.592	25.323	33.711	41.738	99
149	19.443	36.056	0.09	4.0	1.7	19.416	25.722	34.177	42.268	149
199	17.426	35.956	0.07	3.1	1.3	17.392	26.155	34.676	42.828	199
298	15.473	36.134	0.07	3.1	1.3	15.426	26.752	35.338	43.551	298
399	13.783	35.919	---	---	---	13.725	26.956	35.606	43.880	398
499	12.476	35.740	---	---	---	12.408	27.085	35.788	44.111	498
599	11.657	35.648	---	---	---	11.578	27.174	35.910	44.265	598
799	10.139	35.527	0.09	4.0	1.4	10.042	27.357	36.158	44.573	798
999	8.635	35.385	0.12	5.4	1.8	8.524	27.496	36.365	44.843	998
1199	7.275	35.240	0.39	17.4	5.8	7.152	27.587	36.520	45.059	---

CDARWIN 19  
DATE: 12/22/86

STA: 8

LAT: 19° 48.4N  
TIME: 0917

LON: 64° 0.0E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.117	36.543	4.50	200.8	96.2	25.116	24.474	32.763	40.699	0.021	---	6
10	25.115	36.543	4.47	199.3	95.5	25.113	24.475	32.764	40.700	0.034	2.03	10
20	25.093	36.543	4.38	195.3	93.5	25.089	24.483	32.772	40.708	0.069	2.84	20
30	25.079	36.542	4.31	192.3	92.1	25.072	24.487	32.777	40.713	0.103	3.44	30
40	25.078	36.542	4.22	188.3	90.1	25.069	24.488	32.778	40.714	0.138	4.00	40
50	25.078	36.543	4.30	192.2	92.0	25.067	24.489	32.779	40.716	0.173	4.54	50
60	25.074	36.544	4.46	199.1	95.3	25.061	24.492	32.782	40.719	0.207	5.10	60
74	24.842	36.503	4.49	200.6	95.6	24.826	24.533	32.830	40.772	0.256	5.97	74
100	21.619	36.223	0.73	32.5	14.6	21.599	25.261	33.649	41.677	0.332	6.28	100
124	20.428	36.109	0.05	2.5	1.1	20.405	25.501	33.926	41.988	0.395	6.05	124
150	19.131	35.978	0.05	2.3	1.0	19.104	25.744	34.209	42.310	0.458	5.54	150
174	18.042	35.952	0.05	2.0	0.8	18.012	26.000	34.500	42.634	0.511	5.28	174
200	17.573	36.043	0.05	2.1	0.9	17.539	26.186	34.700	42.848	0.562	5.00	199
224	16.745	36.041	0.05	2.2	0.9	16.708	26.384	34.927	43.100	0.605	4.60	223
250	16.079	36.042	0.05	2.4	1.0	16.039	26.541	35.107	43.301	0.648	4.11	249
274	15.709	36.073	0.05	2.4	1.0	15.666	26.651	35.229	43.435	0.684	3.67	273
300	15.665	36.175	0.05	2.3	0.9	15.618	26.740	35.319	43.525	0.721	3.23	299
350	14.713	36.063	0.05	2.4	0.9	14.660	26.867	35.481	43.721	0.788	2.59	349
400	13.968	35.960	0.05	2.4	0.9	13.909	26.949	35.592	43.859	0.850	2.32	399
450	13.244	35.865	0.05	2.4	0.9	13.180	27.027	35.698	43.992	0.910	2.13	449
500	12.534	35.754	0.05	2.4	0.9	12.466	27.084	35.785	44.105	0.966	2.05	499
600	11.431	35.620	0.05	2.3	0.9	11.353	27.194	35.940	44.303	1.072	1.80	599
700	10.713	35.572	0.05	2.1	0.8	10.626	27.289	36.066	44.458	1.171	1.72	699
800	10.058	35.523	0.05	2.4	0.8	9.961	27.368	36.173	44.591	1.263	1.51	799
900	9.480	35.472	0.06	2.6	0.9	9.375	27.427	36.258	44.700	1.350	1.49	899
1000	8.748	35.399	0.09	3.9	1.4	8.636	27.490	36.353	44.827	1.432	1.60	999
1194	7.242	35.234	0.31	14.0	4.7	7.120	27.586	36.521	45.061	1.576	---	1192

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	25.084	36.542	4.49	200.4	96.0	25.079	24.485	32.775	40.711	24
74	25.053	36.505	4.22	188.4	90.1	25.037	24.470	32.761	40.699	73
99	21.642	36.222	0.77	34.4	15.5	21.623	25.254	33.641	41.669	98
148	19.201	35.984	0.04	1.8	0.8	19.174	25.730	34.193	42.292	148
199	17.637	36.039	0.07	3.1	1.3	17.603	26.167	34.680	42.825	198
299	15.653	36.171	0.04	1.8	0.7	15.606	26.740	35.319	43.526	298
399	14.002	35.962	0.04	1.8	0.7	13.943	26.944	35.585	43.850	398
499	12.534	35.754	---	---	---	12.466	27.085	35.785	44.105	498
599	11.446	35.621	0.07	3.1	1.1	11.368	27.192	35.937	44.300	598
799	10.066	35.523	0.04	1.8	0.6	9.970	27.366	36.171	44.589	797
999	8.763	35.400	0.08	3.6	1.2	8.651	27.488	36.351	44.824	998
1199	7.208	35.231	0.33	14.7	4.9	7.085	27.589	36.526	45.067	---

CDARWIN 19  
DATE: 12/22/86

STA: 9

LAT: 18° 54.7N  
TIME: 1527

LON: 63° 59.8E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.549	36.256	4.83	215.8	104.0	25.548	24.124	32.405	40.333	0.023	---	6
10	25.551	36.257	4.83	215.4	103.8	25.549	24.125	32.406	40.334	0.038	2.63	10
20	25.549	36.257	4.86	217.1	104.6	25.545	24.126	32.407	40.335	0.076	3.31	20
30	25.552	36.257	5.13	229.0	110.3	25.545	24.126	32.407	40.335	0.114	3.92	30
40	25.555	36.257	5.11	228.3	110.0	25.546	24.126	32.407	40.335	0.152	4.48	40
50	25.562	36.257	5.17	230.8	111.2	25.551	24.124	32.405	40.333	0.190	5.05	50
60	25.568	36.260	5.18	231.1	111.4	25.555	24.125	32.406	40.334	0.228	5.68	60
74	23.069	35.854	3.77	168.2	77.5	23.054	24.568	32.919	40.913	0.279	6.52	74
100	20.930	35.670	3.10	138.4	61.3	20.911	25.030	33.444	41.497	0.361	6.85	100
124	20.782	36.062	0.66	29.5	13.0	20.758	25.370	33.784	41.837	0.429	6.55	124
150	19.212	35.954	0.36	15.9	6.8	19.185	25.704	34.168	42.266	0.493	5.86	150
174	18.396	35.927	0.31	13.9	5.9	18.365	25.892	34.381	42.505	0.547	5.44	173
200	17.459	35.907	0.26	11.6	4.8	17.425	26.109	34.629	42.782	0.601	5.11	199
224	16.652	35.979	0.22	9.7	4.0	16.615	26.358	34.905	43.082	0.646	4.77	223
250	15.861	35.931	0.17	7.8	3.1	15.821	26.506	35.080	43.283	0.689	4.17	249
274	15.237	35.857	0.14	6.5	2.6	15.195	26.591	35.188	43.412	0.726	3.63	273
300	14.549	35.788	0.11	5.0	1.9	14.504	26.689	35.313	43.561	0.765	3.14	299
350	13.835	35.758	0.09	3.9	1.5	13.784	26.819	35.469	43.743	0.834	2.70	349
400	13.330	35.740	0.08	3.5	1.3	13.273	26.912	35.581	43.873	0.899	2.35	399
450	12.911	35.727	0.08	3.4	1.3	12.848	26.987	35.673	43.980	0.960	2.06	449
500	12.472	35.681	0.07	3.2	1.2	12.404	27.040	35.744	44.068	1.018	1.88	499
600	11.785	35.642	0.08	3.5	1.3	11.706	27.145	35.877	44.227	1.129	1.85	599
700	10.967	35.580	0.07	3.3	1.2	10.878	27.250	36.016	44.398	1.233	1.82	699
800	10.269	35.524	0.08	3.5	1.3	10.171	27.332	36.128	44.538	1.328	1.74	799
900	9.535	35.472	0.11	5.0	1.8	9.429	27.417	36.246	44.686	1.417	1.62	899
1000	8.611	35.371	0.11	5.0	1.7	8.500	27.489	36.359	44.838	1.500	1.59	999
1200	7.245	35.228	0.36	16.2	5.4	7.122	27.582	36.516	45.057	1.650	0.91	1198
1208	7.198	35.222	0.37	16.7	5.6	7.075	27.584	36.521	45.063	1.656	---	1206

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	25.549	36.261	4.81	214.7	103.5	25.544	24.129	32.410	40.338	23
73	24.111	36.026	3.73	166.5	78.2	24.096	24.392	32.713	40.679	73
115	21.282	36.038	0.76	33.9	15.2	21.260	25.215	33.614	41.654	114
149	19.429	35.978	---	---	---	19.402	25.666	34.123	42.215	148
199	17.809	35.907	---	---	---	17.775	26.024	34.533	42.674	199
239	16.321	35.954	---	---	---	16.282	26.417	34.975	43.163	238
349	13.865	35.757	0.08	3.6	1.4	13.814	26.812	35.461	43.734	348
498	12.502	35.685	---	---	---	12.434	27.037	35.740	44.063	497
599	11.825	35.642	---	---	---	11.746	27.137	35.867	44.216	598
798	10.273	35.525	---	---	---	10.175	27.332	36.128	44.538	797
1000	8.639	35.373	0.12	5.4	1.8	8.527	27.486	36.355	44.833	998
1208	7.187	35.222	0.39	17.4	5.8	7.064	27.585	36.523	45.065	---

CDARWIN 19  
DATE: 12/22/86

STA: 10

LAT: 18° 25.0N  
TIME: 1941

LON: 63° 59.5E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	25.483	36.480	5.07	226.4	109.1	25.482	24.313	32.594	40.521	0.014	---	4
10	25.494	36.481	5.05	225.4	108.6	25.492	24.311	32.591	40.518	0.036	1.07	10
20	25.498	36.481	5.11	228.1	109.9	25.494	24.311	32.591	40.518	0.072	2.05	20
30	25.501	36.481	5.10	227.6	109.7	25.494	24.311	32.590	40.517	0.108	2.87	30
40	25.496	36.481	4.90	218.6	105.4	25.487	24.313	32.593	40.520	0.145	3.60	40
50	25.494	36.481	4.86	217.1	104.6	25.483	24.314	32.594	40.521	0.181	4.25	50
60	25.495	36.481	4.89	218.2	105.2	25.482	24.314	32.595	40.522	0.217	4.89	60
74	25.476	36.477	4.87	217.2	104.7	25.460	24.318	32.599	40.527	0.268	5.88	74
100	22.140	36.116	1.52	68.1	30.9	22.120	25.034	33.408	41.423	0.354	6.74	100
124	20.766	36.043	0.45	20.0	8.8	20.742	25.360	33.775	41.829	0.421	6.56	124
150	19.278	35.912	0.10	4.7	2.0	19.251	25.655	34.117	42.214	0.486	6.03	150
174	18.392	35.910	0.09	3.9	1.7	18.361	25.880	34.370	42.494	0.541	5.52	173
200	17.411	35.897	0.08	3.7	1.5	17.377	26.113	34.635	42.789	0.594	5.26	199
224	16.576	35.958	0.08	3.5	1.4	16.539	26.360	34.909	43.089	0.638	4.87	223
250	15.755	35.930	0.08	3.3	1.3	15.716	26.529	35.107	43.314	0.681	4.29	249
274	15.118	35.879	0.06	2.7	1.1	15.076	26.634	35.235	43.463	0.718	3.68	273
300	14.517	35.823	0.06	2.6	1.0	14.472	26.723	35.347	43.596	0.756	3.17	299
350	13.764	35.768	0.06	2.6	1.0	13.713	26.842	35.494	43.770	0.823	2.62	349
400	13.210	35.736	0.06	2.7	1.0	13.154	26.933	35.607	43.903	0.887	2.34	399
450	12.695	35.700	0.06	2.8	1.1	12.633	27.010	35.704	44.019	0.947	2.11	449
500	12.285	35.672	0.07	2.9	1.1	12.218	27.070	35.781	44.111	1.004	2.00	499
600	11.466	35.597	0.07	3.3	1.2	11.388	27.169	35.914	44.277	1.113	1.70	599
700	10.830	35.557	0.10	4.6	1.7	10.742	27.256	36.028	44.416	1.214	1.66	699
800	10.154	35.507	0.11	5.0	1.8	10.057	27.339	36.140	44.555	1.310	1.76	799
900	9.444	35.453	0.13	5.8	2.1	9.339	27.418	36.250	44.595	1.398	1.64	899
1000	8.668	35.381	0.17	7.8	2.7	8.556	27.487	36.355	44.832	1.481	1.55	999
1196	7.195	35.224	0.45	20.0	6.7	7.073	27.585	36.522	45.064	1.627	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.493	36.484	4.62	206.3	99.4	25.488	24.315	32.595	40.522	24
74	25.477	36.479	---	---	---	25.461	24.320	32.600	40.528	74
94	22.596	35.841	---	---	---	22.577	24.695	33.060	41.066	94
106	22.218	36.084	1.12	50.0	22.7	22.197	24.988	33.360	41.374	105
149	19.497	35.933	0.07	3.1	1.3	19.470	25.614	34.069	42.160	148
223	16.770	35.941	0.05	2.2	0.9	16.733	26.301	34.844	43.018	223
299	14.781	35.868	0.07	3.1	1.2	14.736	26.700	35.314	43.554	298
399	13.287	35.741	0.05	2.2	0.9	13.231	26.921	35.592	43.885	398
599	11.528	35.603	0.05	2.2	0.8	11.450	27.163	35.905	44.265	597
799	10.163	35.508	0.12	5.4	1.9	10.066	27.338	36.139	44.553	797
999	8.685	35.382	---	---	---	8.573	27.486	36.353	44.829	998
1198	7.172	35.220	---	---	---	7.050	27.586	36.524	45.067	---



CDARWIN 19  
DATE: 12/23/86

STA: 11

TIME: 0157

LAT: 17° 30.2N

LON: 63° 59.8E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	25.856	36.554	4.44	198.3	96.2	25.855	24.254	32.524	40.441	0.022	---	6
10	25.857	36.554	4.27	190.5	92.4	25.855	24.254	32.524	40.441	0.037	0.44	10
20	25.857	36.554	4.47	199.7	96.9	25.853	24.254	32.524	40.442	0.073	0.62	20
30	25.864	36.554	4.53	202.1	98.1	25.857	24.253	32.523	40.441	0.110	1.05	30
40	25.869	36.555	4.57	204.1	99.0	25.860	24.253	32.523	40.440	0.147	2.01	40
50	25.873	36.554	4.58	204.5	99.2	25.862	24.252	32.521	40.439	0.184	2.85	50
60	25.877	36.560	4.18	186.7	90.6	25.864	24.255	32.525	40.443	0.220	3.66	60
74	25.897	36.588	4.24	189.1	91.8	25.880	24.271	32.540	40.457	0.272	4.83	74
100	25.366	36.478	4.11	183.3	88.1	25.344	24.355	32.639	40.569	0.367	6.63	100
124	20.756	35.584	3.18	141.9	62.6	20.732	25.012	33.433	41.492	0.446	7.23	124
150	18.640	35.593	1.89	84.4	35.8	18.614	25.574	34.060	42.180	0.516	6.91	150
174	17.428	35.543	0.97	43.3	17.9	17.399	25.837	34.362	42.520	0.571	6.16	173
200	16.629	35.641	0.06	2.7	1.1	16.596	26.103	34.655	42.836	0.625	5.28	199
224	15.805	35.609	0.55	24.3	9.8	15.770	26.270	34.851	43.059	0.671	4.64	223
250	15.318	35.703	0.29	13.2	5.2	15.279	26.453	35.049	43.273	0.716	4.04	249
274	14.709	35.640	0.29	13.1	5.2	14.668	26.539	35.159	43.403	0.754	3.50	273
300	14.381	35.640	0.33	14.6	5.7	14.337	26.611	35.242	43.498	0.795	3.18	299
350	14.627	35.897	0.05	2.0	0.8	14.574	26.758	35.378	43.622	0.868	3.07	349
400	13.769	35.837	0.03	1.5	0.6	13.711	26.896	35.547	43.822	0.934	2.73	399
450	13.142	35.796	0.03	1.4	0.5	13.079	26.994	35.671	43.969	0.995	2.17	449
500	12.707	35.743	0.04	1.8	0.7	12.638	27.042	35.736	44.050	1.053	1.90	499
600	11.576	35.626	0.04	1.7	0.6	11.498	27.171	35.912	44.269	1.163	2.16	599
700	10.692	35.560	0.04	1.7	0.6	10.605	27.284	36.061	44.454	1.262	1.55	699
800	10.173	35.519	0.04	1.6	0.6	10.076	27.345	36.145	44.559	1.356	1.44	799
900	9.624	35.470	0.03	1.5	0.5	9.518	27.401	36.226	44.662	1.445	1.42	899
1000	8.787	35.393	0.08	3.4	1.2	8.674	27.479	36.341	44.813	1.530	1.76	998
1194	7.235	35.227	0.30	13.3	4.5	7.113	27.582	36.517	45.058	1.676	---	1192

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	7
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.862	36.555	4.54	202.7	98.3	25.857	24.254	32.524	40.442	24
74	25.904	36.586	4.45	198.7	96.5	25.887	24.268	32.536	40.453	74
124	20.514	35.580	2.69	120.1	52.8	20.490	25.075	33.503	41.569	124
150	17.407	35.735	0.03	1.3	0.6	17.375	25.989	34.514	42.669	189
224	15.847	35.607	0.46	20.5	8.3	15.811	26.259	34.838	43.045	224
324	15.113	35.907	0.08	3.6	1.4	15.063	26.658	35.260	43.488	324
400	13.767	35.837	0.03	1.3	0.5	13.709	26.896	35.548	43.823	399
499	12.708	35.743	0.05	2.2	0.8	12.639	27.042	35.736	44.050	498
600	11.577	35.625	0.04	1.8	0.7	11.499	27.171	35.911	44.269	599
799	10.175	35.518	0.05	2.2	0.8	10.078	27.344	36.144	44.557	798
1000	8.786	35.393	0.08	3.6	1.2	8.673	27.479	36.341	44.813	998
1199	7.209	35.226	0.29	12.9	4.3	7.086	27.585	36.521	45.063	---

CDARWIN 19  
DATE: 12/23/86

STA: 12

TIME: 0602

LAT: 17° 1.4N

LON: 63 59.6E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	25.219	36.317	4.77	213.0	102.1	25.218	24.272	32.561	40.496	0.015	---	4
10	25.213	36.318	4.73	211.0	101.1	25.211	24.275	32.564	40.500	0.036	1.88	10
20	25.215	36.318	4.59	205.0	98.2	25.211	24.275	32.564	40.500	0.073	2.44	20
30	25.216	36.312	4.67	208.4	99.9	25.209	24.271	32.560	40.496	0.109	3.01	30
40	25.203	36.312	4.59	204.9	98.2	25.194	24.276	32.565	40.501	0.146	3.61	40
50	25.192	36.310	4.55	203.3	97.4	25.181	24.278	32.568	40.504	0.182	4.24	50
60	25.138	36.289	4.44	198.3	94.9	25.125	24.280	32.571	40.509	0.219	4.88	60
74	23.665	35.936	3.67	163.7	76.2	23.650	24.456	32.790	40.768	0.269	5.76	74
100	21.637	35.712	3.12	139.1	62.4	21.617	24.867	33.261	41.294	0.355	6.61	100
124	20.740	35.990	0.82	36.8	16.3	20.716	25.327	33.743	41.798	0.425	6.70	124
150	18.965	35.819	0.15	6.7	2.9	18.938	25.664	34.137	42.245	0.490	6.29	150
174	17.819	35.748	0.15	6.5	2.7	17.789	25.898	34.409	42.552	0.545	5.75	173
200	16.552	35.680	0.19	8.3	3.4	16.519	26.151	34.705	42.888	0.597	5.15	199
224	15.907	35.762	0.12	5.2	2.1	15.871	26.364	34.939	43.143	0.641	4.60	223
250	15.236	35.740	0.11	5.0	2.0	15.197	26.500	35.099	43.325	0.684	3.96	249
274	14.804	35.716	0.22	10.0	3.9	14.762	26.578	35.192	43.433	0.722	3.46	273
300	14.467	35.747	0.28	12.5	4.9	14.422	26.675	35.302	43.554	0.760	3.05	299
350	13.914	35.743	0.25	11.3	4.4	13.863	26.792	35.439	43.710	0.830	2.62	349
400	14.059	35.908	0.10	4.6	1.8	14.000	26.890	35.530	43.794	0.896	2.33	399
450	13.397	35.827	0.10	4.5	1.7	13.333	26.966	35.632	43.921	0.959	2.20	449
500	12.750	35.747	0.10	4.3	1.6	12.681	27.037	35.729	44.042	1.018	2.00	499
600	11.846	35.653	0.09	4.1	1.5	11.766	27.142	35.871	44.219	1.130	1.88	599
700	11.067	35.603	0.12	5.3	1.9	10.978	27.249	36.011	44.389	1.233	1.86	699
800	10.263	35.542	0.09	4.1	1.5	10.165	27.347	36.143	44.553	1.329	1.88	799
900	9.570	35.498	0.21	9.4	3.3	9.464	27.432	36.258	44.697	1.416	1.60	899
1000	8.859	35.429	0.28	12.6	4.4	8.746	27.495	36.354	44.822	1.498	1.49	999
1196	7.272	35.233	0.40	17.7	5.9	7.149	27.582	36.515	45.054	1.644	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.190	36.309	4.57	204.0	97.7	25.185	24.276	32.566	40.502	24
74	25.109	36.280	4.50	200.9	96.1	25.093	24.282	32.575	40.513	73
99	22.596	35.789	3.06	136.6	62.4	22.576	24.656	33.021	41.028	99
124	20.758	35.736	1.95	87.1	38.4	20.734	25.128	33.547	41.604	124
199	16.879	35.710	0.16	7.1	2.9	16.846	26.097	34.639	42.812	199
299	14.448	35.757	0.21	9.4	3.7	14.403	26.687	35.314	43.566	298
399	13.966	35.898	0.08	3.6	1.4	13.908	26.902	35.545	43.813	399
498	12.707	35.738	0.07	3.1	1.2	12.638	27.038	35.732	44.046	497
599	11.811	35.647	0.10	4.5	1.7	11.732	27.144	36.874	44.223	598
799	10.197	35.535	0.12	5.4	1.9	10.100	27.353	36.152	44.565	797
999	8.857	35.430	0.29	12.9	4.5	8.744	27.497	36.355	44.824	998
1200	7.226	35.231	0.37	16.5	5.5	7.103	27.587	36.522	45.063	---

CDARWIN 19  
DATE: 12/23/86

STA: 13

TIME: 1221  
LAT: 16° 4.7N

LON: 63° 59.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	25.925	36.616	5.22	232.9	113.2	25.924	24.279	32.546	40.462	0.016	---	4
10	25.908	36.619	5.14	229.7	111.6	25.906	24.287	32.555	40.471	0.036	0.69	10
20	25.909	36.623	5.14	229.6	111.5	25.905	24.290	32.558	40.474	0.073	1.39	20
30	25.888	36.627	5.05	225.3	109.4	25.881	24.301	32.569	40.486	0.109	2.46	30
40	25.886	36.630	4.92	219.8	106.7	25.877	24.304	32.573	40.489	0.145	3.32	40
50	25.891	36.633	4.93	220.3	107.0	25.880	24.306	32.574	40.491	0.182	4.06	50
60	25.904	36.639	4.85	216.4	105.1	25.891	24.307	32.575	40.491	0.218	4.74	60
74	25.902	36.638	4.80	214.2	104.0	25.885	24.308	32.576	40.492	0.269	5.79	74
100	22.338	36.097	1.41	63.0	28.7	22.318	24.963	33.332	41.343	0.360	7.07	100
124	20.741	36.063	0.31	13.9	6.2	20.717	25.382	33.797	41.851	0.427	6.93	124
150	18.777	35.812	0.07	2.9	1.3	18.750	25.707	34.186	42.299	0.491	6.37	150
174	17.812	35.817	0.07	3.3	1.4	17.782	25.953	34.463	42.605	0.544	5.60	173
200	16.701	35.791	0.08	3.6	1.5	16.668	26.202	34.749	42.926	0.596	5.06	199
224	15.638	35.708	0.11	5.0	2.0	15.603	26.384	34.969	43.181	0.639	4.51	223
250	14.983	35.693	0.17	7.8	3.1	14.945	26.519	35.128	43.362	0.682	3.91	249
274	14.840	35.790	0.17	7.7	3.0	14.798	26.627	35.239	43.478	0.719	3.48	273
300	14.684	35.826	0.14	6.4	2.5	14.639	26.689	35.307	43.550	0.757	3.15	299
350	13.929	35.797	0.08	3.7	1.4	13.878	26.830	35.476	43.746	0.826	2.77	349
400	13.425	35.799	0.08	3.5	1.4	13.368	26.938	35.603	43.891	0.889	2.37	399
450	12.932	35.760	0.06	2.8	1.1	12.869	27.009	35.693	43.999	0.949	2.17	449
500	12.483	35.724	0.06	2.6	1.0	12.415	27.071	35.774	44.097	1.006	2.02	499
600	11.545	35.630	0.07	3.3	1.2	11.467	27.180	35.922	44.281	1.114	1.82	599
700	10.793	35.585	0.07	3.3	1.2	10.705	27.285	36.058	44.447	1.214	1.81	699
800	10.293	35.574	0.19	8.5	3.1	10.195	27.367	36.161	44.570	1.306	1.58	799
900	9.433	35.478	0.18	8.0	2.8	9.328	27.439	36.271	44.716	1.393	1.59	899
1000	8.452	35.351	0.21	9.3	3.2	8.342	27.497	36.375	44.861	1.473	1.42	999
1196	7.189	35.210	0.45	19.9	6.6	7.067	27.575	36.513	45.055	1.620	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	25.873	36.618	4.46	199.1	96.6	25.868	24.298	32.567	40.484	24
73	25.896	36.636	4.37	195.1	94.7	25.880	24.308	32.576	40.493	73
99	22.429	36.137	1.20	53.6	24.4	22.409	24.968	33.334	41.341	99
159	18.783	35.820	0.05	2.2	1.0	18.755	25.712	34.190	42.304	159
224	15.739	35.695	0.08	3.6	1.4	15.704	26.351	34.933	43.142	223
299	14.588	35.817	0.08	3.6	1.4	14.543	26.703	35.324	43.571	298
399	13.460	35.800	0.10	4.5	1.7	13.403	26.931	35.595	43.881	398
499	12.511	35.725	0.08	3.6	1.3	12.443	27.067	35.768	44.090	498
599	11.587	35.635	0.07	3.1	1.2	11.509	27.177	35.916	44.273	598
799	10.320	---	0.19	8.5	1.3	---	---	---	---	---
999	8.558	35.368	0.20	8.9	3.1	8.447	27.495	36.367	44.849	998
1199	7.141	---	0.43	19.2	2.7	---	---	---	---	---

CDARWIN 19  
DATE: 12/23/86

STA: 14

TIME: 1634

LAT: 15° 34.7N

LON: 63° 59.6E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.178	36.735	4.37	195.2	95.3	26.177	24.290	32.550	40.458	0.022	---	6
10	26.182	36.735	4.28	191.2	93.3	26.180	24.289	32.549	40.457	0.036	1.88	10
20	26.181	36.734	4.24	189.1	92.3	26.176	24.289	32.549	40.457	0.073	2.77	20
30	26.184	36.735	4.29	191.6	93.5	26.177	24.289	32.549	40.458	0.109	3.48	30
40	26.186	36.735	4.19	187.0	91.3	26.177	24.289	32.550	40.458	0.145	4.13	40
50	26.187	36.735	4.36	194.5	95.0	26.176	24.290	32.550	40.458	0.182	4.72	50
60	26.184	36.733	4.36	194.5	94.9	26.171	24.290	32.550	40.459	0.218	5.34	60
74	26.854	36.679	4.10	182.9	88.8	25.837	24.353	32.622	40.539	0.269	6.26	74
100	22.156	36.258	1.37	61.2	27.8	22.136	25.137	33.509	41.523	0.351	6.75	100
124	20.672	36.077	0.23	10.4	4.6	20.648	25.411	33.828	41.884	0.416	6.50	124
150	18.902	35.871	0.07	2.9	1.3	18.875	25.720	34.194	42.303	0.481	5.90	150
174	17.831	35.850	0.07	3.3	1.4	17.801	25.973	34.482	42.624	0.533	5.45	173
200	17.308	35.980	0.08	3.4	1.4	17.274	26.202	34.726	42.882	0.584	5.05	199
224	16.949	36.076	0.08	3.4	1.4	16.912	26.362	34.898	43.064	0.628	4.67	223
250	16.078	36.042	0.08	3.7	1.5	16.038	26.542	35.107	43.302	0.671	4.24	249
274	15.189	35.931	0.09	3.9	1.6	15.147	26.658	35.256	43.481	0.707	3.81	273
300	14.475	35.855	0.09	4.1	1.6	14.430	26.757	35.382	43.632	0.744	3.26	299
350	13.431	35.716	0.10	4.3	1.6	13.381	26.870	35.536	43.824	0.810	2.45	349
400	12.899	35.655	0.10	4.3	1.6	12.843	26.933	35.620	43.928	0.872	2.18	399
450	12.249	35.593	0.09	3.8	1.4	12.189	27.014	35.728	44.060	0.932	2.01	449
500	11.928	35.577	0.09	4.2	1.6	11.862	27.065	35.791	44.136	0.989	1.85	499
600	11.194	35.523	0.10	4.6	1.7	11.117	27.162	35.919	44.293	1.097	1.69	599
700	10.680	35.518	0.11	4.8	1.7	10.593	27.253	36.031	44.425	1.199	1.70	699
800	10.087	35.489	0.14	6.2	2.2	9.990	27.336	36.140	44.558	1.294	1.64	799
900	9.349	35.426	0.18	8.0	2.8	9.244	27.412	36.249	44.697	1.383	1.67	899
1000	8.613	35.353	0.27	11.9	4.1	8.502	27.475	36.345	44.825	1.466	1.46	999
1196	7.315	35.228	0.46	20.7	6.9	7.192	27.572	36.503	45.040	1.615	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	26.181	36.735	4.74	211.6	103.3	26.176	24.290	32.550	40.458	23
74	26.089	36.714	4.59	204.9	99.9	26.072	24.306	32.569	40.480	74
99	22.139	36.272	1.14	50.9	23.1	22.119	25.153	33.525	41.539	98
173	17.544	35.847	0.11	4.9	2.0	17.515	26.041	34.560	42.710	173
228	16.904	36.085	0.12	5.4	2.2	16.866	26.380	34.917	43.085	228
299	14.506	35.861	0.07	3.1	1.2	14.461	26.755	35.379	43.627	298
399	12.928	35.658	0.06	2.7	1.0	12.873	26.929	35.615	43.922	398
499	11.935	35.579	0.09	4.0	1.5	11.869	27.065	35.791	44.135	498
599	11.196	35.523	0.10	4.5	1.6	11.120	27.162	35.918	44.292	598
799	10.090	35.489	0.14	6.3	2.2	9.993	27.336	36.139	44.557	798
999	8.611	35.354	0.26	11.6	4.0	8.500	27.475	36.346	44.826	998
1199	7.306	35.226	0.47	21.0	7.0	7.183	27.571	36.503	45.041	---

CDARWIN 19  
DATE: 12/24/86

STA: 15

LAT: 14° 39.8N  
TIME: 2245

LON: 64° 0.2E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	25.936	36.602	4.72	210.7	102.4	25.935	24.265	32.532	40.448	0.015	---	4
10	25.946	36.602	4.56	203.5	98.9	25.944	24.262	32.529	40.445	0.036	0.00	10
20	25.946	36.601	4.57	204.0	99.1	25.942	24.262	32.529	40.445	0.073	1.24	20
30	25.942	36.599	4.65	207.6	100.9	25.935	24.263	32.530	40.445	0.110	2.34	30
40	25.942	36.599	4.67	208.6	101.3	25.933	24.263	32.531	40.446	0.146	3.20	40
50	25.944	36.598	4.65	207.5	100.9	25.933	24.263	32.530	40.446	0.183	3.96	50
60	25.941	36.598	4.60	205.5	99.9	25.928	24.264	32.532	40.447	0.220	4.68	60
74	25.946	36.597	4.64	207.0	100.6	25.929	24.263	32.531	40.446	0.271	5.72	74
100	22.822	36.231	1.71	76.3	35.1	22.802	24.927	33.280	41.277	0.363	7.08	100
124	20.762	36.021	0.51	22.9	10.1	20.738	25.344	33.759	41.813	0.432	7.10	124
150	18.931	35.840	0.12	5.5	2.4	18.904	25.689	34.163	42.271	0.497	6.65	150
174	17.693	35.823	0.11	4.7	2.0	17.663	25.987	34.500	42.646	0.550	5.89	173
200	16.386	35.751	0.10	4.4	1.8	16.354	26.245	34.803	42.991	0.601	5.25	199
224	15.337	35.671	0.09	4.1	1.6	15.302	26.423	35.019	43.243	0.643	4.59	223
250	14.488	35.616	0.09	3.8	1.5	14.451	26.568	35.196	43.448	0.684	3.94	249
274	14.106	35.627	0.07	3.2	1.2	14.066	26.659	35.300	43.566	0.720	3.44	273
300	13.731	35.626	0.07	3.1	1.2	13.688	26.738	35.393	43.672	0.757	3.03	299
350	13.014	35.576	0.06	2.9	1.1	12.965	26.847	35.531	43.835	0.824	2.43	349
400	12.560	35.554	0.06	2.7	1.0	12.506	26.922	35.623	43.945	0.887	2.18	399
450	12.148	35.552	0.06	2.5	0.9	12.088	27.002	35.720	44.057	0.947	2.05	449
500	11.876	35.552	0.05	2.4	0.9	11.810	27.055	35.784	44.131	1.005	1.88	499
600	11.206	35.524	0.06	2.3	0.9	11.129	27.161	35.917	44.290	1.114	1.82	599
700	10.467	35.475	0.06	2.8	1.0	10.381	27.257	36.045	44.448	1.216	1.89	699
800	9.928	35.484	0.12	5.5	2.0	9.832	27.359	36.170	44.594	1.309	1.76	799
900	9.166	35.419	0.20	8.8	3.1	9.063	27.437	36.282	44.738	1.395	1.52	899
1000	8.419	35.343	0.28	12.5	4.3	8.309	27.496	36.375	44.863	1.476	1.52	999
1200	6.957	35.181	0.59	26.2	8.7	6.837	27.584	36.533	45.086	1.624	1.16	1198
1242	6.622	35.144	0.67	30.1	9.9	6.500	27.601	36.566	45.135	1.652	---	1240

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	25.919	36.600	4.53	202.2	98.2	25.914	24.270	32.538	40.454	23
74	25.933	36.596	4.57	204.0	99.1	25.917	24.266	32.534	40.450	73
99	22.637	36.233	1.17	52.2	23.9	22.617	24.981	33.340	41.341	98
149	18.697	35.833	0.08	3.6	1.5	18.671	25.743	34.224	42.340	148
199	16.184	35.748	0.07	3.1	1.3	16.152	26.289	34.854	43.049	198
299	13.707	35.632	0.07	3.1	1.2	13.664	26.747	35.403	43.683	298
399	12.522	35.553	0.04	1.8	0.7	12.468	26.928	35.631	43.954	398
499	11.847	35.555	0.05	2.2	0.8	11.781	27.063	35.793	44.141	498
599	11.139	35.601	---	---	---	11.063	27.233	35.991	44.366	598
799	9.880	35.482	0.16	7.1	2.5	9.785	27.366	36.179	44.605	798
999	8.332	35.336	0.29	12.9	4.4	8.223	27.504	36.387	44.879	998
1244	6.586	35.137	0.65	29.0	9.5	6.464	27.600	36.567	45.138	---

CDARWIN 19  
DATE: 12/24/86

STA 16

TIME: 0308

LAT: 14° 9.7N

LON: 63° 58.6E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.004	36.444	4.19	187.2	91.0	26.003	24.124	32.392	40.307	0.015	---	4
10	26.012	36.445	4.03	179.9	87.4	26.010	24.123	32.390	40.306	0.038	1.72	10
20	26.011	36.446	4.02	179.5	87.3	26.006	24.125	32.392	40.308	0.076	2.36	20
30	26.014	36.446	4.00	178.7	86.9	26.007	24.124	32.392	40.307	0.114	3.04	30
40	26.018	36.446	3.95	176.6	85.8	26.009	24.124	32.391	40.307	0.152	3.74	40
50	26.019	36.446	4.06	181.3	88.1	26.008	24.124	32.392	40.307	0.190	4.44	50
60	26.003	36.439	3.99	178.3	86.7	26.990	24.125	32.393	40.309	0.228	5.16	60
74	24.762	36.168	3.35	149.5	71.0	24.746	24.303	32.606	40.554	0.280	6.19	74
100	21.983	35.738	2.76	123.1	55.6	21.963	24.791	33.174	41.198	0.370	7.25	100
124	20.755	35.981	0.34	15.3	6.8	20.731	25.315	33.731	41.786	0.440	7.28	124
150	18.463	35.713	0.11	4.7	2.0	18.437	25.710	34.200	42.324	0.505	6.74	150
174	16.779	35.576	0.10	4.5	1.8	16.750	26.017	34.564	42.741	0.557	5.97	173
200	15.776	35.657	0.10	4.4	1.8	15.744	26.313	34.893	43.102	0.607	5.23	199
224	14.840	35.612	0.10	4.3	1.7	14.806	26.487	35.102	43.342	0.648	4.56	223
250	14.416	35.616	0.09	3.8	1.5	14.379	26.583	35.213	43.468	0.688	3.94	249
274	13.773	35.569	0.09	3.8	1.5	13.734	26.684	35.338	43.616	0.724	3.47	273
300	13.128	35.522	0.09	4.2	1.6	13.086	26.780	35.460	43.761	0.760	3.06	299
350	12.566	35.504	0.08	3.8	1.4	12.518	26.880	35.582	43.904	0.825	2.37	349
400	12.083	35.472	0.09	3.8	1.4	12.030	26.951	35.672	44.012	0.887	2.07	399
450	11.842	35.486	0.13	5.6	2.1	11.783	27.009	35.740	44.089	0.946	2.06	449
500	11.524	35.498	0.15	6.9	2.5	11.459	27.079	35.822	44.183	1.002	1.90	499
600	11.017	35.506	0.16	7.0	2.5	10.941	27.181	35.945	44.326	1.109	1.76	599
700	10.343	35.467	0.17	7.5	2.7	10.258	27.273	36.066	44.473	1.209	1.74	699
800	9.586	35.397	0.21	9.3	3.3	9.492	27.349	36.176	44.614	1.303	1.66	799
900	9.286	35.439	0.25	11.2	3.9	9.182	27.433	36.272	44.723	1.389	1.67	899
1000	8.351	35.325	0.41	18.5	6.3	8.242	27.493	36.375	44.866	1.470	1.42	999
1196	7.033	35.185	0.69	30.7	10.2	6.912	27.577	36.522	45.072	1.616	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.997	---	---	---	---	---	---	---	---	---
74	23.847	36.040	3.47	154.9	72.4	23.831	24.481	32.809	40.781	74
124	20.671	35.979	0.26	11.6	5.1	20.647	25.337	33.755	41.812	123
174	16.850	35.582	0.08	3.6	1.5	16.821	26.005	34.549	42.724	173
224	16.100	35.672	0.08	3.6	1.4	16.068	26.260	34.819	43.017	199
274	13.533	35.555	0.09	4.0	1.5	13.490	26.723	35.387	43.674	298
424	11.546	35.490	0.14	6.3	2.3	11.481	27.069	35.812	44.172	498
624	11.073	35.543	0.18	8.0	2.9	10.994	27.200	35.962	44.340	623
774	9.563	35.396	0.19	8.5	3.0	9.470	27.352	36.179	44.619	797
874	9.383	35.439	0.26	11.6	4.1	9.281	27.417	36.251	44.698	872
999	8.289	35.322	0.42	18.8	6.4	8.180	27.500	36.385	44.879	998
1200	7.001	35.183	0.67	29.9	9.9	6.880	27.580	36.527	45.078	---

CDARWIN 19  
DATE: 12/24/86

STA: 17

LAT: 13° 13.7N  
TIME: 0930

LON: 63° 59.9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.777	36.626	5.78	258.0	127.1	26.776	24.017	32.264	40.160	0.016	---	4
10	26.775	36.627	5.72	255.3	125.8	26.773	24.019	32.266	40.162	0.039	3.01	10
20	26.754	36.625	5.81	259.5	127.8	26.749	24.024	32.272	40.168	0.078	4.06	20
30	26.726	36.625	5.82	260.0	128.0	26.719	24.035	32.283	40.180	0.117	4.74	30
40	26.715	36.626	5.75	256.8	126.4	26.706	24.040	32.288	40.185	0.155	5.42	40
50	26.668	36.623	5.67	252.9	124.4	26.657	24.053	32.303	40.201	0.194	6.10	50
60	24.618	36.102	5.24	234.2	110.9	24.605	24.296	32.603	40.556	0.232	6.75	60
74	23.295	35.950	4.31	192.5	89.1	23.280	24.574	32.918	40.905	0.281	7.40	74
100	20.927	36.026	0.65	29.1	12.9	20.908	25.302	33.712	41.761	0.360	7.53	100
124	18.316	35.668	0.13	5.8	2.4	18.294	25.711	34.207	42.335	0.420	6.80	124
150	17.070	35.548	0.12	5.3	2.2	17.045	25.925	34.463	42.631	0.478	5.89	150
174	16.262	35.627	0.11	5.0	2.0	16.234	26.177	34.741	42.934	0.525	5.28	173
200	15.281	35.635	0.10	4.6	1.8	15.250	26.407	35.005	43.231	0.572	4.83	199
224	14.537	35.628	0.10	4.3	1.7	14.504	26.565	35.191	43.441	0.610	4.31	223
250	13.685	35.543	0.11	5.0	1.9	13.649	26.682	35.340	43.621	0.649	3.68	249
274	13.062	35.480	0.17	7.4	2.8	13.024	26.761	35.443	43.747	0.682	3.17	273
300	12.609	35.454	0.18	8.2	3.1	12.568	26.832	35.532	43.853	0.716	2.76	299
350	12.238	35.484	0.20	9.0	3.3	12.191	26.929	35.643	43.977	0.779	2.26	349
400	11.829	35.461	0.28	12.4	4.6	11.777	26.991	35.722	44.072	0.838	1.94	399
450	11.632	35.480	0.28	12.7	4.7	11.573	27.044	35.783	44.140	0.896	1.89	449
500	11.365	35.484	0.28	12.4	4.5	11.301	27.098	35.848	44.215	0.951	1.77	499
600	10.781	35.465	0.19	8.7	3.1	10.706	27.192	35.966	44.356	1.056	1.72	599
700	10.332	35.475	0.21	9.2	3.3	10.247	27.281	36.074	44.482	1.155	1.74	699
800	9.172	35.314	0.34	15.4	5.4	9.081	27.351	36.197	44.654	1.247	1.49	799
900	8.613	35.280	0.43	19.1	6.6	8.513	27.415	36.286	44.766	1.333	1.47	899
1000	8.487	35.330	0.40	17.6	6.1	8.377	27.476	36.352	44.837	1.416	1.47	999
1196	7.010	35.178	0.64	28.7	9.5	6.890	27.575	36.521	45.072	1.564	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
39	26.727	36.632	4.71	210.3	103.5	26.718	24.040	32.288	40.185	39
69	23.337	35.942	3.31	147.8	68.4	23.323	24.556	32.899	40.885	69
94	21.853	36.116	0.74	33.0	14.9	21.834	25.114	33.496	41.520	94
149	17.327	35.546	0.09	4.0	1.7	17.302	25.862	34.391	42.551	148
191	15.890	35.652	0.12	5.4	2.2	15.860	26.282	34.859	43.064	191
299	12.597	35.458	0.18	8.0	3.0	12.556	26.837	35.538	43.859	299
400	11.034	35.468	0.25	11.2	4.1	10.984	27.144	35.907	44.286	399
499	11.303	35.487	0.23	10.3	3.8	11.239	27.111	35.864	44.234	498
699	10.341	35.480	0.21	9.4	3.4	10.256	27.283	36.076	44.484	698
799	9.180	35.315	0.33	14.7	5.1	9.089	27.351	36.196	44.652	798
998	8.484	35.326	0.43	19.2	6.6	8.374	27.473	36.349	44.835	996
1199	6.976	35.174	0.65	29.0	9.6	6.856	27.576	36.524	45.077	---

CDARWIN 19  
DATE: 12/24/86

STA: 18

LAT: 12 44.6N  
TIME: 1337

LON 63 59 6E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.324	36.452	5.22	232.8	113.8	26.323	24.030	32.289	40.197	0.023	---	6
10	26.326	36.452	5.25	234.5	114.6	26.324	24.029	32.289	40.197	0.039	3.22	10
20	26.325	36.451	5.24	234.1	114.4	26.321	24.030	32.289	40.197	0.078	3.96	20
30	26.320	36.452	5.17	230.7	112.7	26.313	24.033	32.293	40.201	0.116	4.66	30
40	26.307	36.451	5.19	231.6	113.1	26.298	24.037	32.297	40.205	0.155	5.35	40
50	26.289	36.452	5.11	228.2	111.4	26.278	24.044	32.305	40.214	0.194	6.02	50
60	25.342	36.134	5.04	224.9	107.9	25.329	24.099	32.387	40.322	0.233	6.72	60
74	22.924	35.807	4.16	185.6	85.2	22.909	24.574	32.930	40.928	0.283	7.48	74
100	19.974	35.648	2.30	102.5	44.6	19.955	25.269	33.712	41.793	0.362	7.73	100
124	17.880	35.510	1.52	67.9	28.4	17.859	25.698	34.210	42.353	0.422	7.13	124
150	16.466	35.539	0.76	34.0	13.8	16.442	26.061	34.619	42.806	0.478	6.03	150
174	15.349	35.489	1.09	48.7	19.4	15.322	26.278	34.876	43.101	0.523	5.09	174
200	14.665	35.475	0.94	42.0	16.5	14.635	26.419	35.042	43.290	0.568	4.34	199
224	14.189	35.504	0.94	42.1	16.4	14.156	26.544	35.184	43.448	0.607	3.81	223
250	13.921	35.568	0.66	29.6	11.5	13.885	26.651	35.300	43.572	0.646	3.37	249
274	13.751	35.616	0.42	18.8	7.2	13.712	26.725	35.379	43.657	0.680	3.03	273
300	12.993	35.494	0.64	28.4	10.8	12.951	26.786	35.471	43.777	0.715	2.75	299
350	12.762	35.559	0.49	21.8	8.2	12.714	26.884	35.577	43.891	0.780	2.45	349
400	12.568	35.624	0.22	10.0	3.8	12.513	26.975	35.675	43.995	0.841	2.30	399
450	12.127	35.617	0.23	10.3	3.8	12.067	27.057	35.774	44.111	0.898	2.08	449
500	11.554	35.548	0.30	13.4	4.9	11.489	27.112	35.854	44.213	0.953	1.88	499
600	10.894	35.519	0.41	18.1	6.6	10.819	27.214	35.983	44.368	1.057	1.86	599
700	9.975	35.412	0.43	19.4	6.9	9.891	27.293	36.103	44.525	1.154	1.57	699
800	9.070	35.307	0.47	21.2	7.4	8.979	27.362	36.213	44.673	1.244	1.57	799
900	8.498	35.269	0.54	24.3	8.3	8.399	27.425	36.301	44.786	1.330	1.49	899
1000	8.211	35.291	0.48	21.5	7.3	8.103	27.487	36.376	44.873	1.411	1.39	999
1196	7.052	35.182	0.75	33.5	11.1	6.931	27.572	36.517	45.066	1.557	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.315	36.452	4.84	216.1	105.6	26.309	24.034	32.294	40.202	24
74	23.195	35.818	3.50	156.3	72.1	23.180	24.504	32.852	40.843	74
98	21.072	35.768	2.26	100.9	44.8	21.053	25.066	33.475	41.523	98
149	16.628	35.547	0.48	21.4	8.7	16.604	26.029	34.582	42.764	148
274	13.427	35.564	0.35	15.6	6.0	13.388	26.751	35.419	43.709	274
323	12.726	35.496	0.45	20.1	7.6	12.682	26.842	35.537	43.853	323
424	12.514	35.670	0.16	7.1	2.7	12.456	27.021	35.723	44.045	423
499	11.593	35.598	0.40	17.9	6.6	11.528	27.144	35.883	44.241	498
599	10.839	35.486	0.31	13.8	5.0	10.764	27.197	35.969	44.357	598
859	8.711	35.273	0.52	23.2	8.0	8.616	27.394	36.260	44.736	858
945	8.524	35.301	0.45	20.1	6.9	8.420	27.446	36.321	44.805	944
1199	7.033	35.178	0.73	32.6	10.8	6.912	27.572	36.517	45.067	---



CDARWIN 19  
DATE: 12/24/86

STA: 19

LAT: 11° 44.6N  
TIME: 2028

LON: 64° 01E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.440	36.319	4.84	216.0	105.7	26.439	23.893	32.151	40.057	0.016	---	4
10	26.456	36.321	4.70	209.6	102.6	26.454	23.889	32.147	40.054	0.040	3.00	10
20	26.462	36.322	4.73	211.2	103.3	26.458	23.889	32.147	40.053	0.080	3.57	20
30	26.463	36.323	4.80	214.4	104.9	26.456	23.890	32.148	40.054	0.120	4.15	30
40	26.464	36.323	5.02	224.2	109.7	26.455	23.890	32.148	40.055	0.161	4.73	40
50	26.466	36.323	4.96	221.4	108.4	26.455	23.891	32.148	40.055	0.201	5.40	50
60	26.327	36.298	5.02	224.2	109.5	26.313	23.917	32.178	40.088	0.241	6.07	60
74	23.518	35.872	4.09	182.5	84.7	23.503	24.450	32.789	40.772	0.293	6.82	74
100	21.808	35.783	3.40	151.9	68.4	21.788	24.874	33.261	41.289	0.380	7.36	100
124	19.939	35.679	2.17	96.7	42.1	19.916	25.303	33.747	41.828	0.451	7.34	124
150	17.970	35.587	1.21	54.0	22.6	17.944	25.736	34.244	42.384	0.516	6.92	150
174	16.053	35.464	1.10	49.3	19.9	16.025	26.100	34.673	42.875	0.568	6.35	173
200	15.132	35.552	0.26	11.6	4.6	15.101	26.376	34.981	43.212	0.615	5.46	199
224	13.681	35.405	0.19	8.4	3.2	13.649	26.575	35.234	43.517	0.654	4.52	223
250	13.012	35.360	0.24	10.8	4.1	12.977	26.677	35.363	43.670	0.692	3.56	249
274	12.729	35.364	0.21	9.5	3.6	12.692	26.738	35.435	43.752	0.726	2.94	273
300	12.467	35.361	0.22	9.7	3.6	12.427	26.787	35.494	43.821	0.761	2.53	299
350	11.968	35.345	0.36	16.2	6.0	11.922	26.873	35.600	43.946	0.826	2.22	349
400	11.684	35.363	0.34	15.0	5.5	11.632	26.942	35.680	44.036	0.888	2.12	399
450	11.557	35.428	0.30	13.6	5.0	11.499	27.017	35.760	44.120	0.947	1.98	449
500	11.316	35.445	0.29	13.0	4.8	11.252	27.076	35.829	44.198	1.003	1.89	499
600	10.637	35.408	0.31	13.9	5.0	10.563	27.172	35.954	44.350	1.110	1.73	599
700	9.946	35.360	0.32	14.4	5.1	9.863	27.257	36.069	44.493	1.210	1.73	699
800	9.225	35.320	0.43	19.1	6.7	9.133	27.348	36.191	44.645	1.303	1.63	799
900	8.471	35.252	0.51	22.8	7.8	8.372	27.415	36.293	44.779	1.390	1.51	899
1000	7.836	35.194	0.63	28.2	9.5	7.731	27.467	36.374	44.889	1.471	1.47	999
1196	6.575	35.077	0.92	41.1	13.5	6.459	27.554	36.522	45.093	1.618	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.447	36.323	4.79	213.8	104.6	26.442	23.895	32.153	40.059	24
74	25.259	36.139	4.09	182.6	87.5	25.243	24.130	32.420	40.356	74
98	21.716	35.788	2.77	123.7	55.6	21.697	24.903	33.293	41.324	98
149	17.398	35.546	0.82	36.6	15.2	17.373	25.845	34.372	42.530	148
200	15.799	35.644	0.27	12.1	4.8	15.767	26.297	34.877	43.085	199
299	12.559	35.355	0.19	8.5	3.2	12.519	26.765	35.468	43.792	298
349	11.965	35.347	0.34	15.2	5.6	11.919	26.875	35.602	43.948	348
499	11.301	35.439	---	---	---	11.237	27.074	35.828	44.198	498
599	10.641	35.408	0.27	12.1	4.3	10.567	27.172	35.953	44.349	597
800	9.167	35.315	0.48	21.4	7.5	9.076	27.353	36.199	44.655	798
999	7.795	35.192	0.61	27.2	9.2	7.690	27.471	36.380	44.897	998
1199	6.560	35.078	0.90	40.2	13.2	6.443	27.556	36.525	45.097	---

CDARWIN 19  
DATE: 12/25/86

STA: 20

TIME: 0018

LAT: 11° 14.6N

LON: 63° 59.5E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.236	36.460	4.70	209.7	102.3	26.235	24.063	32.325	40.235	0.023	---	6
10	26.233	36.459	4.65	207.5	101.2	26.231	24.064	32.326	40.236	0.038	3.56	10
20	26.240	36.460	4.68	209.0	102.0	26.236	24.063	32.325	40.235	0.077	4.13	20
30	26.249	36.462	4.62	206.2	100.6	26.242	24.062	32.324	40.234	0.115	4.74	30
40	26.245	36.461	4.73	211.0	103.0	26.236	24.064	32.325	40.235	0.154	5.39	40
50	26.317	36.502	4.72	210.8	103.0	26.306	24.073	32.332	40.240	0.193	6.04	50
60	23.787	35.836	4.19	187.1	87.3	23.774	24.343	32.675	40.651	0.231	6.66	60
74	22.364	35.735	3.55	158.4	72.0	22.349	24.679	33.051	41.065	0.278	7.27	74
100	20.183	35.696	2.06	91.9	40.1	20.164	25.251	33.687	41.761	0.356	7.59	100
124	17.945	35.501	1.75	78.2	32.7	17.924	25.676	34.185	42.327	0.417	7.15	124
150	16.528	35.622	0.80	35.7	14.6	16.504	26.110	34.665	42.849	0.473	6.29	150
174	14.969	35.492	0.09	4.2	1.7	14.943	26.365	34.976	43.213	0.517	5.25	174
200	14.153	35.438	0.14	6.1	2.4	14.124	26.500	35.142	43.408	0.560	4.19	199
224	13.511	35.358	0.26	11.6	4.4	13.479	26.573	35.240	43.529	0.597	3.41	223
250	13.319	35.401	0.21	9.2	3.5	13.284	26.647	35.320	43.616	0.635	3.10	249
274	13.187	35.479	0.12	5.3	2.0	13.149	26.735	35.413	43.712	0.670	2.97	273
300	12.710	35.432	0.17	7.5	2.8	12.669	26.795	35.492	43.809	0.705	2.75	299
350	11.938	35.364	0.46	20.4	7.6	11.892	26.893	35.622	43.968	0.769	2.28	349
400	11.416	35.314	0.50	22.4	8.2	11.365	26.954	35.704	44.071	0.830	2.08	399
450	11.066	35.312	0.60	26.9	9.8	11.010	27.017	35.782	44.162	0.889	1.96	449
500	10.913	35.340	0.47	21.1	7.6	10.851	27.068	35.839	44.225	0.945	1.78	499
600	10.516	35.379	0.31	13.7	4.9	10.142	27.171	35.958	44.359	1.052	1.86	599
700	9.860	35.351	0.32	14.2	5.0	9.777	27.265	36.080	44.508	1.152	1.73	699
800	9.147	35.312	0.45	20.0	7.0	9.056	27.354	36.200	44.658	1.244	1.70	799
900	8.352	35.241	0.53	23.8	8.1	8.254	27.425	36.308	44.799	1.330	1.54	899
1000	7.748	35.183	0.68	30.2	10.2	7.643	27.471	36.382	44.901	1.411	1.41	999
1196	6.528	35.077	0.97	43.5	14.3	6.412	27.560	36.530	45.104	1.557	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	26.228	36.462	4.53	202.2	98.7	26.223	24.069	32.331	40.241	23
74	24.180	---	---	---	---	---	---	---	---	---
100	20.920	35.670	2.53	112.9	50.0	20.901	25.032	33.447	41.501	99
158	16.264	35.715	0.03	1.3	0.5	16.239	26.244	34.806	42.998	158
224	13.407	35.381	0.18	8.0	3.1	13.375	26.612	35.283	43.576	223
274	13.027	35.472	0.16	7.1	2.7	12.989	26.762	35.445	43.751	273
424	11.281	35.310	0.47	21.0	7.7	11.227	26.976	35.731	44.104	423
499	10.937	35.340	0.44	19.6	7.1	10.875	27.064	35.833	44.218	498
599	10.531	35.380	0.27	12.1	4.3	10.458	27.170	35.956	44.356	598
799	9.132	35.310	0.45	20.1	7.0	9.041	27.355	36.202	44.660	798
999	7.758	35.187	0.64	28.6	9.6	7.653	27.473	36.384	44.902	998
1200	6.530	35.078	0.95	42.4	13.9	6.414	27.560	36.531	45.104	---

CDARWIN 19  
DATE: 12/25/86

STA: 21

TIME: 0607

LAT: 10° 24.2N

LON: 63° 58.7E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	26.724	36.585	5.49	245.3	120.7	26.723	24.003	32.251	40.149	0.016	---	4
10	26.720	36.584	5.27	235.2	115.8	26.718	24.004	32.253	40.150	0.039	2.95	10
20	26.708	36.584	5.19	231.8	114.1	26.703	24.009	32.258	40.155	0.078	3.83	20
30	26.708	36.584	5.24	234.0	115.2	26.701	24.009	32.258	40.156	0.117	4.53	30
40	26.708	36.584	5.02	223.9	110.2	26.699	24.010	32.259	40.157	0.156	5.21	40
50	26.709	36.584	5.14	229.5	112.9	26.698	24.010	32.259	40.157	0.195	5.89	50
60	26.707	36.584	5.25	234.5	115.4	26.693	24.012	32.261	40.159	0.234	6.60	60
74	24.629	36.332	3.59	160.1	76.0	24.613	24.468	32.772	40.722	0.287	7.60	74
100	21.174	36.006	0.79	35.2	15.7	21.155	25.219	33.622	41.665	0.366	7.71	100
124	19.173	35.794	0.15	6.7	2.9	19.151	25.591	34.057	42.159	0.429	7.22	124
150	16.644	35.525	0.12	5.3	2.1	16.619	26.008	34.561	42.743	0.487	6.20	150
174	15.507	35.482	0.10	4.3	1.7	15.480	26.237	34.830	43.049	0.533	5.59	173
200	14.130	35.404	0.26	11.7	4.5	14.101	26.479	35.122	43.389	0.578	4.81	199
224	13.457	35.402	0.23	10.2	3.9	13.425	26.618	35.287	43.577	0.615	4.08	223
250	12.943	35.390	0.24	10.5	4.0	12.909	26.714	35.402	43.711	0.652	3.39	249
274	12.578	35.364	0.29	13.1	4.9	12.541	26.767	35.470	43.793	0.684	2.95	273
300	11.911	35.291	0.52	23.4	8.7	11.872	26.841	35.570	43.919	0.719	2.61	299
350	11.357	35.259	0.37	16.4	6.0	11.313	26.921	35.673	44.043	0.781	2.05	349
400	11.328	35.316	0.25	11.2	4.1	11.277	26.971	35.725	44.095	0.841	1.77	399
450	10.971	35.293	0.48	21.5	7.8	10.915	27.020	35.788	44.173	0.899	1.88	449
500	10.786	35.324	0.50	22.3	8.1	10.724	27.078	35.854	44.245	0.955	1.94	499
600	10.239	35.344	0.51	22.9	8.2	10.167	27.192	35.991	44.404	1.060	1.82	599
700	9.776	35.353	0.43	19.0	6.7	9.693	27.280	36.099	44.530	1.158	1.69	699
800	9.150	35.310	0.46	20.7	7.2	9.059	27.352	36.198	44.656	1.250	1.49	799
900	8.549	35.264	0.55	24.6	8.4	8.450	27.413	36.287	44.770	1.336	1.42	899
1000	7.929	35.204	0.68	30.1	10.2	7.823	27.461	36.364	44.874	1.419	1.46	999
1196	6.601	35.069	0.97	43.5	14.3	6.484	27.544	36.511	45.081	1.568	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	26.722	36.587	4.77	212.9	104.8	26.718	24.006	32.255	40.152	19
69	26.706	36.585	4.80	214.3	105.5	26.690	24.013	32.263	40.161	68
99	21.869	36.088	0.93	41.5	18.7	21.850	25.089	33.471	41.494	98
149	16.733	35.557	0.08	3.6	1.5	16.709	26.012	34.561	42.740	148
199	14.685	35.447	0.08	3.6	1.4	14.655	26.393	35.015	43.263	198
248	13.079	35.392	0.21	9.4	3.6	13.045	26.688	35.371	43.675	248
349	11.404	35.256	0.39	17.4	6.4	11.359	26.909	35.660	44.028	348
474	10.982	35.320	---	---	---	10.923	27.039	35.807	44.191	473
574	10.573	35.372	0.47	21.0	7.6	10.502	27.155	35.939	44.339	573
799	9.150	35.312	0.44	19.6	6.8	9.059	27.353	36.200	44.657	798
999	7.914	35.208	0.68	30.4	10.3	7.808	27.466	36.370	44.881	998
1199	6.591	35.065	0.92	41.1	13.5	6.474	27.542	36.510	45.081	---

CDARWIN 19  
DATE: 12/26/86

STA: 22

LAT: 9° 12.9N  
TIME: 0214

LON: 64° 1' 8E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.511	36.494	4.46	199.2	99.3	27.509	23.681	31.912	39.793	0.034	---	8
10	27.511	36.494	4.44	198.3	98.8	27.509	23.682	31.912	39.793	0.042	2.86	10
20	27.513	36.494	4.43	197.9	98.6	27.508	23.682	31.912	39.793	0.084	3.63	20
30	27.516	36.496	4.44	198.4	98.9	27.509	23.682	31.913	39.793	0.126	4.39	30
40	27.515	36.496	4.47	199.4	99.4	27.506	23.684	31.915	39.795	0.169	5.07	40
50	27.505	36.496	4.41	196.7	98.0	27.493	23.688	31.919	39.800	0.211	5.86	50
60	27.463	36.500	4.46	199.0	99.1	27.449	23.705	31.937	39.819	0.253	6.68	60
74	25.826	36.419	3.53	157.6	76.3	25.809	24.166	32.439	40.359	0.310	7.78	74
100	22.453	36.769	0.77	34.4	15.7	22.433	24.909	33.275	41.283	0.399	8.49	100
124	19.150	35.643	0.23	10.1	4.3	19.128	25.481	33.950	42.054	0.468	8.20	124
150	16.708	35.485	0.17	7.4	3.0	16.683	25.962	34.513	42.693	0.528	7.09	150
174	15.075	35.446	0.15	6.7	2.7	15.048	25.306	34.915	43.149	0.573	6.95	173
200	13.672	35.330	0.67	29.7	11.4	13.643	26.518	35.179	43.463	0.616	4.65	199
224	13.019	35.289	0.73	32.5	12.3	12.988	26.620	35.307	43.614	0.652	3.68	223
250	12.638	35.280	0.59	26.3	9.9	12.604	26.690	35.391	43.713	0.690	3.02	249
274	12.362	35.276	0.75	33.5	12.5	12.325	26.741	35.454	43.785	0.723	2.73	273
300	12.038	35.259	1.13	50.2	18.6	11.998	26.791	35.517	43.861	0.759	2.62	299
350	11.482	35.256	1.04	46.3	17.0	11.437	26.895	35.643	44.008	0.822	2.33	349
400	11.047	35.248	0.89	39.8	14.4	10.997	26.970	35.736	44.117	0.883	2.06	399
450	10.846	35.270	0.83	37.2	13.5	10.790	27.025	35.798	44.188	0.940	1.84	449
500	10.590	35.275	0.73	32.7	11.8	10.529	27.075	35.860	44.259	0.996	1.72	499
600	9.996	35.257	0.53	23.5	8.4	9.925	27.166	35.976	44.400	1.103	1.69	599
700	9.369	35.236	0.54	24.0	8.4	9.289	27.256	36.094	44.543	1.203	1.69	699
800	8.673	35.181	0.55	24.4	8.4	8.585	27.327	36.196	44.674	1.296	1.52	799
900	8.179	35.171	0.62	27.8	9.5	8.082	27.396	36.288	44.788	1.384	1.57	899
1000	7.684	35.155	0.73	32.5	10.9	7.580	27.458	36.373	44.894	1.466	1.52	999
1200	6.489	35.055	1.08	48.1	15.8	6.373	27.548	36.520	45.096	1.617	1.26	1198
1400	5.420	34.973	1.46	65.2	20.8	5.294	27.619	36.645	45.271	1.753	1.19	1398
1600	4.472	34.906	1.91	85.2	26.6	4.337	27.675	36.750	45.422	1.876	1.21	1598
1800	3.629	34.848	2.32	103.5	31.6	3.486	27.717	36.837	45.551	1.987	0.93	1798
2000	3.047	34.815	2.60	116.1	34.9	2.894	27.747	36.899	45.642	2.090	0.91	1998
2500	2.203	34.767	3.08	137.3	40.4	2.018	27.783	36.983	45.772	2.322	0.62	2498
3000	1.852	34.746	3.43	152.9	44.6	1.627	27.797	37.019	45.828	2.539	0.31	2997
3500	1.746	34.738	3.60	160.7	46.7	1.473	27.802	37.032	45.850	2.756	0.22	3497
4000	1.704	34.735	3.68	164.3	47.8	1.379	27.806	37.042	45.865	2.977	0.00	3997
4500	1.645	34.729	3.78	168.9	49.0	1.265	27.809	37.052	45.880	3.205	0.38	4497
4564	1.627	34.729	3.82	170.7	49.5	1.240	27.811	37.055	45.885	3.234	---	4561

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	8.662	35.183	0.53	23.7	8.2	8.574	27.330	36.199	44.679	798
999	7.691	35.154	0.78	34.8	11.7	7.587	27.456	36.371	44.892	997
1198	6.494	35.056	1.06	47.3	15.5	6.378	27.548	36.520	45.095	1196
1599	4.468	34.907	1.87	83.5	26.0	4.333	27.677	36.752	45.424	1597
1998	3.049	34.815	2.59	115.6	34.8	2.896	27.747	36.898	45.642	1996
2398	2.339	---	3.01	134.4	16.2	---	---	---	---	---
2798	1.959	34.753	3.30	147.3	43.1	1.751	27.793	37.008	45.811	2795
3199	1.792	34.741	3.54	158.0	46.0	1.549	27.799	37.025	45.839	3196
3600	1.736	34.738	3.57	159.4	46.3	1.453	27.803	37.035	45.854	3597
3999	1.704	34.735	3.69	164.7	47.9	1.379	27.806	37.042	45.865	3996
4299	1.681	34.733	3.77	168.3	48.9	1.323	27.809	37.048	45.873	4296
4566	1.627	---	3.79	169.2	19.9	---	---	---	---	---

CDARWIN 19  
DATE: 12/26/86

STA: 23

TIME: 0930

LAT: 8° 46.5N

LON: 63° 34.9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
66	26.497	36.422	4.91	219.0	107.3	26.482	23.957	32.213	40.117	0.261	---	66
74	25.645	36.365	4.56	203.5	98.3	25.629	24.181	32.459	40.384	0.292	6.70	74
100	20.130	35.709	0.40	17.7	7.7	20.111	25.274	33.712	41.787	0.376	6.97	100
124	17.115	35.425	0.19	8.7	3.6	17.094	25.819	34.356	42.525	0.435	6.75	124
150	15.948	35.376	0.31	13.9	5.6	15.924	26.055	34.634	42.840	0.489	6.08	150
174	14.417	35.269	0.71	31.7	12.4	14.391	26.313	34.947	43.206	0.534	4.94	174
200	13.648	35.244	0.94	41.8	16.0	13.619	26.456	35.119	43.405	0.578	4.12	200
224	13.242	35.251	1.09	48.6	18.5	13.211	26.546	35.224	43.524	0.616	3.53	224
250	12.769	35.245	1.13	50.2	18.9	12.735	26.636	35.333	43.650	0.655	3.05	250
274	12.583	35.250	0.89	39.8	14.9	12.546	26.678	35.381	43.706	0.689	2.86	274
300	12.265	35.275	0.88	39.2	14.6	12.225	26.760	35.476	43.811	0.726	2.67	300
350	11.781	35.277	1.15	51.3	18.9	11.736	26.855	35.591	43.944	0.791	2.35	349
400	11.377	35.271	1.09	48.4	17.7	11.326	26.928	35.679	44.049	0.854	2.01	399
450	11.090	35.273	1.05	46.7	17.0	11.033	26.983	35.747	44.127	0.914	1.82	449
500	10.986	35.316	0.73	32.5	11.8	10.923	27.036	35.804	44.188	0.972	1.78	499
600	10.286	35.285	0.68	30.3	10.8	10.214	27.138	35.935	44.347	1.082	1.93	599
700	9.883	35.340	0.57	25.3	9.0	9.800	27.252	36.066	44.494	1.184	---	699

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	27.683	36.241	4.78	213.4	106.5	27.677	23.436	31.665	39.545	---
54	27.684	36.257	4.79	213.8	106.7	27.671	23.450	31.679	39.559	---
70	26.844	36.512	4.53	202.2	99.7	26.828	23.914	32.161	40.057	70
78	24.874	36.368	3.07	137.1	65.3	24.857	24.421	32.718	40.662	78
149	15.827	35.378	0.27	12.1	4.8	15.804	26.084	34.667	42.877	148
249	12.754	35.247	0.85	37.9	14.3	12.720	26.641	35.338	43.656	249
299	12.262	35.274	0.71	31.7	11.8	12.222	26.760	35.476	43.812	299
399	11.339	35.270	---	---	---	11.288	26.935	35.689	44.059	399
499	10.977	35.319	0.82	36.6	13.3	10.915	27.040	35.808	44.192	498
599	10.286	35.286	0.57	25.4	9.1	10.214	27.139	35.937	44.348	598
649	10.270	35.361	0.53	23.7	8.5	10.191	27.201	35.999	44.410	648
705	9.894	35.343	0.53	23.7	8.4	9.810	27.253	36.067	44.493	---

CDARWIN 19  
DATE: 12/26/86

STA. 24

TIME: 1304

LAT: 8° 26.2N

LON: 63° 16.9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.670	36.308	4.46	199.0	99.3	27.668	23.489	31.718	39.597	0.035	---	8
10	27.668	36.308	4.39	195.8	97.7	27.666	23.490	31.719	39.598	0.044	3.45	10
20	27.668	36.308	4.36	194.5	97.1	27.663	23.491	31.720	39.599	0.088	4.39	20
30	27.665	36.309	4.38	195.4	97.6	27.658	23.493	31.723	39.602	0.132	5.33	30
40	27.664	36.311	4.31	192.3	96.0	27.655	23.496	31.725	39.604	0.176	6.14	40
50	27.661	36.313	4.46	199.2	99.5	27.649	23.499	31.728	39.608	0.220	6.94	50
60	27.630	36.362	4.51	201.1	100.4	27.616	23.547	31.777	39.656	0.264	7.75	60
74	25.698	36.408	3.61	161.3	78.0	25.682	24.198	32.473	40.397	0.321	8.72	74
100	20.471	35.814	0.65	29.0	12.7	20.462	25.263	33.690	41.754	0.408	8.90	100
124	17.858	35.446	0.53	23.5	9.8	17.837	25.655	34.168	42.313	0.468	7.96	124
150	15.522	35.304	0.75	33.6	13.4	15.499	26.096	34.690	42.912	0.523	6.41	150
174	14.280	35.239	0.83	37.0	14.4	14.254	26.319	34.958	43.222	0.568	5.30	173
200	13.413	35.235	1.29	67.6	21.9	13.385	26.498	35.170	43.464	0.611	4.28	199
224	12.941	35.236	1.01	45.1	17.0	12.910	26.595	35.285	43.596	0.648	3.65	223
250	12.511	35.246	1.22	54.5	20.4	12.477	26.688	35.395	43.722	0.686	3.13	249
274	12.016	35.196	1.33	59.2	21.9	11.980	26.745	35.472	43.818	0.719	2.87	273
300	11.785	35.219	1.10	49.0	18.1	11.746	26.808	35.544	43.898	0.754	2.58	299
350	11.394	35.227	1.07	47.9	17.5	11.349	26.888	35.640	44.009	0.818	2.24	349
400	11.060	35.244	0.94	41.9	15.2	11.010	26.964	35.729	44.111	0.878	2.06	399
450	10.846	35.271	0.84	37.4	13.5	10.790	27.025	35.799	44.188	0.936	1.69	449
500	10.667	35.270	0.75	33.3	12.0	10.605	27.057	35.839	44.235	0.993	1.51	499
600	10.460	35.337	0.60	26.9	9.6	10.387	27.148	35.938	44.342	1.102	1.73	599
700	9.933	35.316	0.59	26.5	9.4	9.850	27.225	36.037	44.463	1.204	1.73	699
800	9.323	35.317	0.51	22.8	8.0	9.231	27.329	36.168	44.619	1.300	1.76	799
900	8.472	35.243	0.59	26.2	9.0	8.373	27.408	36.286	44.772	1.387	1.60	899
1000	7.829	35.185	0.70	31.2	10.5	7.724	27.461	36.369	44.883	1.470	1.51	999
1200	6.631	35.091	1.01	45.0	14.8	6.514	27.558	36.523	45.091	1.620	1.30	1198
1400	5.439	34.979	1.44	64.4	20.6	5.313	27.622	36.647	45.272	1.756	1.28	1398
1600	4.317	34.898	1.94	86.7	26.9	4.184	27.686	36.769	45.448	1.878	1.08	1598
1800	3.542	34.846	2.35	105.1	32.0	3.400	27.724	36.848	45.566	1.987	0.88	1798
2000	2.973	34.806	2.72	121.5	36.5	2.821	27.747	36.903	45.650	2.088	0.91	1998
2500	2.227	34.768	3.14	140.0	41.3	2.042	27.782	36.981	45.768	2.318	0.66	2498
3000	1.854	34.747	3.47	154.9	45.2	1.629	27.797	37.019	45.829	2.536	0.31	2998
3500	1.736	34.740	3.63	162.1	47.2	1.464	27.804	37.035	45.853	2.751	0.00	3497
4000	1.657	34.734	3.73	166.7	48.4	1.333	27.808	37.047	45.872	2.971	0.00	3997
4500	1.645	34.731	3.86	172.3	50.0	1.265	27.811	37.053	45.882	3.196	0.00	4497
4674	1.646	34.730	3.89	173.8	50.4	1.246	27.812	37.055	45.885	3.276	---	4671

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
798	9.340	35.320	0.50	22.3	7.8	9.248	27.329	36.167	44.617	797
1000	7.828	35.183	0.73	32.6	11.0	7.723	27.459	36.367	44.882	998
1199	6.647	35.097	1.00	44.6	14.7	6.530	27.560	36.524	45.092	1197
1599	4.321	34.901	1.93	86.2	26.8	4.188	27.688	36.770	45.449	1597
1999	2.965	34.806	2.70	120.5	36.2	2.813	27.747	36.903	45.651	1997
2398	2.337	34.773	3.10	138.4	40.9	2.159	27.777	36.969	45.750	2396
2799	1.953	34.753	3.35	151.3	44.3	1.745	27.794	37.009	45.812	2797
3198	1.795	34.743	3.55	158.5	46.2	1.552	27.800	37.026	45.840	3196
3600	1.717	34.738	3.63	162.1	47.1	1.435	27.805	37.037	45.857	3597
3998	1.657	34.733	3.77	168.3	48.8	1.333	27.808	37.047	45.871	3995
4300	1.640	34.732	3.80	169.6	49.2	1.283	27.811	37.052	45.880	4297
4673	1.646	34.729	3.84	171.4	49.7	1.246	27.811	37.054	45.884	4670

CDARWIN 19  
DATE: 12/26/86

STA: 25

TIME: 2017

LAT: 8° 1.9N

LON: 62° 54.9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.723	36.243	6.09	271.7	135.7	27.721	23.423	31.651	39.530	0.036	---	8
10	27.723	36.244	6.04	269.6	134.7	27.721	23.424	31.652	39.531	0.045	3.69	10
20	27.725	36.244	6.22	277.8	138.7	27.720	23.424	31.652	39.531	0.089	4.54	20
30	27.724	36.245	6.02	268.6	134.2	27.717	23.426	31.654	39.533	0.134	5.33	30
40	27.735	36.264	6.25	279.0	139.4	27.726	23.437	31.665	39.544	0.178	6.16	40
50	27.733	36.337	6.21	277.4	138.7	27.721	23.494	31.721	39.599	0.223	6.97	50
60	27.656	36.397	6.27	279.9	139.8	27.642	23.565	31.793	39.672	0.266	7.74	60
74	25.673	36.253	5.09	227.1	109.6	25.657	24.088	32.367	40.292	0.324	8.71	74
100	21.304	35.844	1.81	80.8	36.1	21.285	25.060	33.461	41.502	0.411	8.92	100
124	17.608	35.423	0.94	41.7	17.3	17.687	25.699	34.220	42.373	0.474	7.95	124
150	15.669	35.305	0.95	42.2	16.9	15.645	26.064	34.652	42.869	0.530	6.40	150
174	14.493	35.245	1.45	64.6	25.2	14.467	26.278	34.909	43.166	0.575	5.31	173
200	13.792	35.250	1.60	71.3	27.4	13.763	26.431	35.089	43.359	0.619	4.42	199
224	12.954	35.208	1.74	77.5	29.3	12.923	26.570	35.260	43.571	0.657	3.84	223
250	12.450	35.193	1.78	79.6	29.8	12.416	26.659	35.369	43.698	0.695	3.31	249
274	11.987	35.197	1.69	75.3	27.9	11.951	26.752	35.480	43.827	0.729	2.84	273
300	11.852	35.201	1.62	72.2	26.7	11.813	26.781	35.515	43.867	0.764	2.48	299
350	11.477	35.215	1.46	65.1	23.9	11.432	26.864	35.612	43.978	0.829	2.31	349
400	11.012	35.219	1.28	57.1	20.7	10.962	26.954	35.721	44.105	0.890	2.08	399
450	10.757	35.230	1.19	53.1	19.2	10.702	27.009	35.787	44.181	0.949	1.71	449
500	10.758	35.267	1.09	48.5	17.5	10.696	27.039	35.817	44.210	1.006	1.72	499
600	10.082	35.237	0.68	30.3	10.8	10.010	27.136	35.943	44.363	1.115	1.77	599
700	9.570	35.289	0.65	28.9	10.2	9.489	27.264	36.093	44.533	1.217	1.94	699
800	8.964	35.267	0.66	29.3	10.2	8.874	27.348	36.203	44.669	1.309	1.57	799
900	8.338	35.208	0.69	30.7	10.5	8.240	27.401	36.285	44.778	1.396	1.44	899
1000	7.758	35.170	0.75	33.4	11.3	7.653	27.460	36.371	44.889	1.478	1.36	999
1200	6.551	35.062	1.08	48.4	15.9	6.434	27.545	36.514	45.087	1.631	1.22	1198
1400	5.519	34.996	1.31	58.6	18.7	5.392	27.626	36.646	45.267	1.768	1.24	1398
1600	4.292	34.898	1.96	87.5	27.2	4.159	27.689	36.773	45.453	1.890	1.25	1598
1800	3.457	34.837	2.40	107.1	32.6	3.317	27.725	36.854	45.576	1.998	0.96	1798
2000	2.985	34.806	2.74	122.1	36.7	2.833	27.745	36.900	45.647	2.098	0.73	1998
2500	2.231	34.767	3.17	141.4	41.6	2.046	27.781	36.980	45.767	2.330	0.62	2498
3000	1.875	34.748	3.44	153.5	44.8	1.650	27.797	37.018	45.826	2.549	0.38	2997
3500	1.718	34.739	3.60	160.8	46.8	1.446	27.805	37.037	45.856	2.765	0.44	3497
4000	1.628	34.732	3.77	168.5	48.9	1.305	27.809	37.049	45.876	2.982	0.31	3997
4500	1.649	34.730	3.85	171.7	49.8	1.269	27.810	37.053	45.881	3.205	-0.31	4497
4762	1.673	34.730	3.87	172.6	50.1	1.261	27.811	37.053	45.883	3.327	---	4759

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
798	8.974	35.267	0.65	29.0	10.1	8.884	27.346	36.201	44.666	797
999	7.771	35.172	0.76	33.9	11.5	7.666	27.459	36.370	44.887	997
1199	6.555	35.062	1.09	48.7	16.0	6.438	27.545	36.514	45.086	1198
1599	4.301	34.899	1.94	86.6	26.9	4.168	27.688	36.772	45.452	1597
1999	2.986	34.806	2.73	121.9	36.8	2.834	27.746	36.900	45.647	1997
2398	2.322	34.771	3.72	166.1	49.0	2.145	27.777	36.970	45.752	2396
2800	1.989	34.754	3.37	150.4	44.0	1.780	27.792	37.005	45.806	2797
3199	1.810	34.744	3.48	155.4	45.3	1.566	27.800	37.025	45.838	3196
3599	1.681	34.737	3.67	163.8	47.6	1.400	27.806	37.041	45.863	3596
3999	1.628	34.733	3.76	167.9	48.7	1.305	27.810	37.050	45.877	3996
4399	1.641	34.732	3.84	171.4	49.7	1.273	27.811	37.053	45.882	4396
4764	1.672	34.730	3.84	171.4	49.8	1.260	27.811	37.053	45.882	---

CDARWIN 19  
DATE 12/27/86

STA: 26

TIME: 0301

LAT: 7° 42.0N

LON 62 35 8E

SONIC DEPTH: 4454 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.633	36.323	4.19	187.0	93.3	27.632	23.512	31.742	39.622	0.026	---	6
10	27.634	36.324	4.10	182.9	91.2	27.632	23.513	31.743	39.622	0.044	3.95	10
20	27.637	36.324	4.19	187.0	93.3	27.632	23.513	31.743	39.622	0.087	4.85	20
30	27.642	36.324	4.23	188.9	94.3	27.635	23.512	31.741	39.621	0.131	5.66	30
40	27.644	36.324	4.16	185.8	92.7	27.635	23.512	31.742	39.621	0.175	6.41	40
50	27.645	36.324	4.19	187.2	93.4	27.633	23.513	31.742	39.622	0.219	7.17	50
60	27.684	36.394	4.30	191.8	95.8	27.670	23.553	31.781	39.659	0.263	7.94	60
74	24.355	36.120	2.39	106.7	50.3	24.339	24.390	32.704	40.662	0.319	8.78	74
100	19.593	35.521	0.61	27.1	11.7	19.575	25.272	33.729	41.822	0.399	8.55	100
124	17.653	35.445	0.27	12.0	5.0	17.632	25.705	34.224	42.376	0.460	7.55	124
150	15.496	35.265	0.35	15.5	6.2	15.473	26.072	34.667	42.889	0.516	6.12	150
174	14.448	35.238	0.59	26.2	10.2	14.422	26.282	34.915	43.173	0.561	5.21	173
200	13.577	35.232	0.77	34.3	13.1	13.549	26.461	35.127	43.415	0.605	4.42	199
224	13.117	35.239	0.90	40.2	15.2	13.086	26.561	35.245	43.549	0.643	3.85	223
250	12.377	35.202	1.37	61.1	22.8	12.344	26.680	35.393	43.725	0.681	3.34	249
274	12.213	35.259	1.20	53.3	19.9	12.177	26.757	35.475	43.813	0.714	2.87	273
300	12.009	35.257	1.13	50.7	18.8	11.970	26.795	35.522	43.867	0.749	2.51	299
350	11.497	35.239	1.10	48.9	17.9	11.452	26.879	35.626	43.991	0.814	2.26	349
400	11.082	35.230	1.09	48.6	17.7	11.032	26.949	35.714	44.095	0.875	2.04	399
450	10.854	35.239	1.00	44.6	16.1	10.798	26.999	35.773	44.162	0.934	1.82	449
500	10.573	35.223	0.82	36.6	13.2	10.512	27.037	35.824	44.224	0.991	1.85	499
600	9.755	35.210	0.57	25.4	9.0	9.685	27.170	35.991	44.425	1.098	1.85	599
700	9.400	35.229	0.56	24.9	8.7	9.319	27.246	36.082	44.530	1.198	1.60	699
800	9.052	35.250	0.66	29.4	10.2	8.961	27.321	36.172	44.635	1.292	1.54	799
900	8.405	35.205	0.71	31.9	10.9	8.307	27.389	36.270	44.760	1.381	1.54	899
1000	7.825	35.172	0.83	37.3	12.6	7.720	27.451	36.359	44.875	1.464	1.42	999
1200	6.396	35.042	1.19	53.3	17.4	6.281	27.550	36.527	45.107	1.617	1.28	1198
1400	5.288	34.954	1.60	71.3	22.7	5.163	27.620	36.653	45.285	1.753	1.24	1398
1600	4.303	34.896	2.01	89.8	27.9	4.170	27.686	36.770	45.449	1.875	1.23	1598
1800	3.492	34.842	2.44	108.8	33.1	3.351	27.726	36.853	45.574	1.984	1.06	1798
2000	2.888	34.804	2.80	125.1	37.5	2.738	27.752	36.912	45.664	2.083	0.91	1998
2500	2.202	34.767	3.24	144.8	42.6	2.017	27.783	36.983	45.772	2.316	0.62	2498
3000	1.827	34.747	3.50	156.3	45.6	1.603	27.799	37.023	45.833	2.532	0.44	2997
3500	1.659	34.737	3.67	163.8	47.5	1.389	27.807	37.042	45.864	2.744	0.22	3497
4000	1.631	34.734	3.78	168.6	48.9	1.308	27.810	37.050	45.877	2.959	0.00	3997
4492	1.656	34.731	3.84	171.5	49.8	1.277	27.810	37.052	45.880	3.180	---	4489

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
800	8.978	35.260	0.62	27.7	9.6	8.888	27.340	36.195	44.660	799
999	7.848	35.174	0.80	35.7	12.1	7.743	27.449	36.356	44.870	997
1199	6.439	35.056	1.14	50.9	16.6	6.324	27.555	36.530	45.108	1197
1599	4.257	34.889	2.01	89.7	27.8	4.125	27.685	36.771	45.453	1597
1999	3.011	34.809	2.69	120.1	36.1	2.859	27.746	36.899	45.645	1997
2400	2.393	34.773	3.13	139.7	41.3	2.214	27.772	36.961	45.740	2397
2799	1.945	34.753	3.38	150.9	44.1	1.737	27.794	37.010	45.813	2796
3198	1.745	34.741	---	---	---	1.503	27.802	37.031	45.847	3196
3599	1.645	34.736	3.68	164.3	47.7	1.365	27.808	37.045	45.868	3596
3998	1.630	34.733	3.81	170.1	49.3	1.307	27.810	37.050	45.876	3995
4300	1.633	34.731	3.81	170.1	49.3	1.277	27.810	37.052	45.880	4297
4495	1.657	34.732	3.81	170.1	49.4	1.277	27.811	37.053	45.881	---



CDARWIN 19  
DATE: 12/27/86

STA: 27

LAT: 7° 31.8N  
TIME: 0753

LON: 62° 26.3E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.668	36.315	4.93	220.1	109.9	27.667	23.495	31.724	39.603	0.026	---	6
10	27.665	36.315	4.90	218.7	109.2	27.663	23.497	31.726	39.605	0.044	4.72	10
20	27.648	36.316	4.97	221.9	110.7	27.643	23.504	31.733	39.613	0.088	5.51	20
30	27.634	36.322	4.92	219.6	109.6	27.627	23.513	31.743	39.623	0.132	6.29	30
40	27.557	36.368	4.90	218.7	109.0	27.548	23.573	31.804	39.686	0.175	7.03	40
50	27.553	36.375	4.91	219.0	109.1	27.541	23.581	31.812	39.693	0.218	7.76	50
60	26.986	36.379	4.95	220.9	109.1	26.972	23.768	32.013	39.907	0.261	8.49	60
74	23.111	36.039	3.60	160.5	74.1	23.096	24.696	33.044	41.035	0.312	9.01	74
100	18.867	35.566	0.92	41.3	17.6	18.849	25.494	33.972	42.085	0.387	8.48	100
124	16.181	35.307	0.32	14.5	5.9	16.161	25.948	34.518	42.718	0.441	7.00	124
150	15.266	35.275	0.60	27.0	10.7	15.243	26.131	34.735	42.965	0.493	5.36	150
174	14.428	35.278	1.22	54.4	21.2	14.402	26.317	34.951	43.209	0.537	4.45	173
200	13.816	35.244	1.21	54.2	20.9	13.787	26.421	35.078	43.358	0.581	3.94	199
224	13.168	35.226	1.34	59.8	22.7	13.137	26.541	35.223	43.526	0.620	3.64	223
250	12.549	35.191	1.38	61.5	23.1	12.515	26.638	35.344	43.670	0.659	3.31	249
274	12.172	35.189	1.42	63.3	23.5	12.136	26.711	35.432	43.771	0.693	3.05	273
300	11.866	35.212	1.30	58.3	21.5	11.827	26.787	35.520	43.871	0.728	2.71	299
350	11.520	35.231	1.19	53.3	19.6	11.475	26.869	35.615	43.979	0.793	2.24	349
400	11.148	35.237	1.00	44.8	16.3	11.098	26.942	35.704	44.082	0.855	1.98	399
450	10.893	35.237	0.98	43.5	15.8	10.837	26.990	35.763	44.151	0.914	1.95	449
500	10.566	35.247	0.80	35.7	12.8	10.505	27.057	35.843	44.244	0.971	2.04	499
600	9.876	35.243	0.60	26.7	9.5	9.805	27.175	35.991	44.419	1.078	1.24	599
602	9.871	35.245	0.61	27.3	9.7	9.800	27.178	35.993	44.422	1.080	---	601

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
18	27.643	36.317	4.73	211.2	105.4	27.639	23.506	31.735	39.615	18
53	27.554	36.373	4.61	205.8	102.6	27.542	23.580	31.811	39.692	53
74	22.901	36.066	1.72	76.8	35.3	22.886	24.777	33.130	41.126	73
99	18.849	35.559	0.35	15.6	6.7	18.831	25.493	33.972	42.086	99
124	16.179	35.316	0.28	12.5	5.0	16.159	25.955	34.526	42.725	124
148	15.318	35.282	0.46	20.5	8.2	15.295	26.125	34.726	42.954	148
199	13.839	35.244	1.00	44.6	17.2	13.811	26.416	35.072	43.351	198
249	12.550	35.190	1.17	52.2	19.6	12.516	26.637	35.343	43.669	249
299	11.850	35.219	1.15	51.3	19.0	11.811	26.796	35.529	43.881	298
399	11.147	35.237	0.93	41.5	15.1	11.097	26.943	35.705	44.083	398
499	10.564	35.248	0.78	34.8	12.5	10.503	27.058	35.845	44.245	498
601	9.871	35.244	0.61	27.2	9.6	9.800	27.177	35.993	44.421	600

CDARWIN 19  
DATE: 12/27/86

STA: 28

TIME: 1029

LAT: 7 20.5N

LON 62 16 2E

SONIC DEPTH: 4123 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	27.693	36.352	4.77	212.9	106.4	27.692	23.514	31.742	39.620	0.017	---	4
10	27.707	36.355	4.81	214.9	107.4	27.705	23.513	31.740	39.618	0.044	3.64	10
20	27.683	36.354	4.82	215.0	107.4	27.678	23.520	31.749	39.627	0.087	4.72	20
30	27.663	36.352	4.75	212.1	105.9	27.656	23.526	31.755	39.634	0.131	5.65	30
40	27.655	36.351	4.77	213.1	106.4	27.646	23.529	31.758	39.637	0.175	6.51	40
50	27.638	36.350	4.76	212.6	106.1	27.626	23.535	31.764	39.644	0.218	7.34	50
60	27.623	36.350	4.70	209.8	104.7	27.609	23.541	31.771	39.651	0.262	8.17	60
74	24.948	36.246	3.38	151.1	72.1	24.932	24.306	32.603	40.546	0.319	9.17	74
100	19.055	35.467	0.81	36.1	15.4	19.037	25.370	33.844	41.953	0.400	9.03	100
124	16.501	35.350	0.48	21.3	8.7	16.481	25.906	34.466	42.654	0.456	7.87	124
150	14.925	35.308	1.06	47.4	18.7	14.902	26.232	34.847	43.088	0.508	6.20	150
174	13.633	35.253	1.41	63.0	24.2	13.608	26.465	35.129	43.415	0.548	4.95	173
200	13.099	35.282	1.18	52.5	19.9	13.071	26.598	35.281	43.586	0.588	3.88	199
224	12.497	35.228	1.38	61.7	23.1	12.467	26.676	35.383	43.711	0.623	3.16	223
250	12.020	35.188	1.36	60.8	22.6	11.987	26.738	35.465	43.810	0.660	2.67	249
274	12.001	35.226	1.43	63.8	23.7	11.965	26.772	35.499	43.845	0.692	2.40	273
300	11.793	35.237	1.55	69.0	25.5	11.754	26.821	35.556	43.909	0.726	2.19	299
350	11.432	35.230	1.46	65.0	23.8	11.387	26.884	35.634	44.001	0.790	1.94	349
400	11.042	35.217	1.39	62.0	22.5	10.992	26.946	35.713	44.095	0.852	1.88	399
450	10.924	35.240	1.32	58.7	21.3	10.868	26.987	35.758	44.145	0.911	1.85	449
500	10.448	35.195	1.40	62.3	22.3	10.387	27.037	35.829	44.235	0.969	1.77	499
600	10.126	35.249	0.77	34.6	12.3	10.054	27.137	35.942	44.361	1.079	1.61	599
700	9.577	35.251	0.72	32.0	11.3	9.496	27.233	36.062	44.503	1.182	1.92	699
800	8.877	35.236	0.74	33.2	11.5	8.788	27.338	36.197	44.667	1.277	1.74	799
900	8.453	35.222	0.81	36.1	12.4	8.365	27.394	36.273	44.761	1.364	1.37	899
1000	7.812	35.174	0.77	34.4	11.6	7.707	27.454	36.363	44.879	1.448	1.60	999
1200	6.495	35.056	1.20	53.7	17.6	6.379	27.548	36.520	45.096	1.600	1.24	1198
1400	5.367	34.967	1.62	72.2	23.0	5.241	27.621	36.650	45.278	1.736	1.36	1398
1600	4.297	34.887	2.10	93.6	29.0	4.164	27.679	36.763	45.443	1.858	1.10	1598
1800	3.534	34.841	2.51	111.9	34.1	3.392	27.721	36.846	45.564	1.968	0.91	1798
2000	2.966	34.805	2.81	125.6	37.7	2.814	27.747	36.903	45.650	2.070	0.79	1998
2500	2.276	34.769	3.26	145.7	43.0	2.090	27.780	36.976	45.761	2.300	0.70	2498
3000	1.869	34.748	3.50	156.4	45.7	1.644	27.797	37.018	45.827	2.524	0.44	2997
3500	1.673	34.737	3.67	164.0	47.6	1.402	27.806	37.041	45.862	2.738	0.31	3497
4000	1.658	34.733	3.76	167.9	48.7	1.334	27.808	37.046	45.871	2.954	-0.38	3997
4202	1.673	34.733	3.78	168.8	49.0	1.326	27.808	37.047	45.873	3.045	---	4199

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
799	8.935	35.234	0.69	30.8	10.7	8.845	27.327	36.184	44.651	798
999	7.869	35.170	0.76	33.9	11.5	7.763	27.443	36.349	44.863	998
1199	6.666	35.071	1.12	50.0	16.4	6.548	27.537	36.501	45.068	1197
1499	4.971	34.931	1.72	76.8	24.2	4.840	27.639	36.688	45.336	1497
1799	3.699	34.849	2.33	104.0	31.8	3.555	27.712	36.828	45.538	1797
2199	2.632	34.784	3.00	133.9	39.9	2.468	27.760	36.935	45.701	2197
2600	2.141	34.762	3.27	146.0	42.9	1.948	27.785	36.989	45.781	2597
2899	1.910	34.749	3.45	154.0	45.0	1.694	27.794	37.013	45.818	2896
3200	1.755	34.741	3.57	159.4	46.4	1.513	27.801	37.030	45.845	3197
3500	1.661	34.735	3.71	165.6	48.1	1.390	27.806	37.041	45.863	3497
3799	1.641	34.734	3.72	166.1	48.2	1.340	27.808	37.047	45.871	3796
4205	1.673	34.733	3.74	167.0	48.5	1.326	27.809	37.047	45.873	---

CDARWIN 19  
DATE: 12/27/86

STA: 29

TIME: 1720

LAT: 6° 59.0N

LON: 61° 57.8E

SONIC DEPTH: 3520 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	27.653	36.200	3.86	172.1	85.8	27.652	23.413	31.644	39.524	0.027	---	6
10	27.652	36.199	3.67	163.9	81.7	27.650	23.413	31.644	39.524	0.045	4.14	10
20	27.656	36.199	3.66	163.5	81.6	27.651	23.413	31.643	39.524	0.089	5.16	20
30	27.658	36.249	3.69	164.9	82.3	27.651	23.450	31.680	39.560	0.134	6.07	30
40	27.630	36.327	3.66	163.2	81.4	27.621	23.519	31.749	39.629	0.178	6.80	40
50	27.613	36.333	3.71	165.4	82.5	27.601	23.530	31.760	39.640	0.222	7.51	50
60	26.880	36.285	3.48	155.3	76.5	26.866	23.731	31.979	39.876	0.265	8.23	60
74	24.360	36.066	1.88	84.1	39.6	24.344	24.347	32.662	40.621	0.319	8.96	74
100	18.713	35.420	0.57	25.7	10.9	18.695	25.421	33.907	42.026	0.400	8.70	100
124	16.802	35.324	0.77	34.4	14.1	16.782	25.816	34.365	42.544	0.457	7.46	124
150	15.283	35.226	0.82	36.6	14.5	15.260	26.090	34.693	42.923	0.511	5.93	150
174	14.087	35.210	1.18	52.6	20.4	14.062	26.337	34.984	43.255	0.556	4.93	173
200	13.569	35.233	1.35	60.2	23.1	13.541	26.464	35.130	43.419	0.599	4.21	199
224	12.943	35.217	1.67	74.7	28.3	12.912	26.579	35.270	43.581	0.637	3.75	223
250	12.291	35.189	1.78	79.3	29.6	12.258	26.687	35.403	43.738	0.675	3.26	249
274	11.725	35.133	2.16	96.5	35.5	11.690	26.752	35.492	43.849	0.708	2.84	273
300	11.403	35.114	2.17	97.1	35.5	11.365	26.798	35.551	43.920	0.743	2.40	299
350	11.067	35.111	2.05	91.4	33.2	11.023	26.859	35.625	44.008	0.808	1.98	349
400	11.027	35.175	1.47	65.7	23.8	10.977	26.917	35.684	44.068	0.870	1.69	399
450	10.671	35.142	1.56	69.6	25.0	10.616	26.955	35.738	44.136	0.931	1.73	449
500	10.451	35.152	1.43	63.8	22.9	10.390	27.003	35.795	44.202	0.990	1.89	499
600	10.075	35.190	1.11	49.7	17.7	10.004	27.100	35.908	44.329	1.102	1.69	599
700	9.781	35.275	0.75	33.5	11.8	9.699	27.218	36.038	44.470	1.208	1.86	699
800	9.282	35.261	0.68	30.3	10.6	9.190	27.292	36.134	44.587	1.305	1.63	799
900	8.640	35.235	0.73	32.7	11.3	8.540	27.376	36.246	44.726	1.397	1.67	899
1000	7.852	35.163	0.88	39.5	13.3	7.746	27.440	36.348	44.862	1.481	1.34	999
1200	6.599	35.055	1.17	52.1	17.1	6.482	27.533	36.500	45.071	1.638	1.52	1198
1400	5.329	34.959	1.60	71.2	22.7	5.204	27.619	36.650	45.280	1.774	1.12	1398
1600	4.323	34.888	2.05	91.6	28.4	4.190	27.678	36.750	45.439	1.896	1.10	1598
1800	3.692	34.854	2.33	104.1	31.8	3.548	27.716	36.832	45.543	2.007	1.01	1798
2000	3.036	34.807	2.75	122.6	36.9	2.883	27.742	36.894	45.638	2.109	0.88	1998
2500	2.263	34.768	3.20	142.9	42.1	2.077	27.780	36.976	45.762	2.344	0.62	2498
3000	1.801	34.745	3.48	155.3	45.2	1.577	27.800	37.025	45.837	2.562	0.31	2997
3500	1.689	34.738	3.59	160.2	46.5	1.418	27.806	37.040	45.860	2.775	0.00	3497
3546	1.673	34.736	3.62	161.8	47.0	1.397	27.806	37.041	45.862	2.794	---	3543

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	9.085	35.254	0.65	29.0	10.1	8.994	27.318	36.169	44.630	798
998	7.809	35.158	0.84	37.5	12.7	7.704	27.442	36.352	44.868	997
1199	6.690	35.057	1.08	48.2	15.9	6.572	27.523	36.486	45.052	1198
1399	5.458	34.972	1.49	66.5	21.2	5.332	27.614	36.638	45.262	1397
1699	4.025	34.868	2.15	96.0	29.6	3.886	27.693	36.792	45.486	1697
1999	3.037	34.805	2.71	121.0	36.4	2.884	27.740	36.892	45.637	1997
2299	2.464	34.776	3.04	135.7	40.2	2.293	27.768	36.953	45.728	2297
2599	2.137	34.762	3.17	141.5	41.6	1.944	27.785	36.989	45.782	2597
2898	1.874	34.749	3.41	152.2	44.4	1.658	27.797	37.017	45.825	2896
3199	1.725	34.740	3.54	158.0	45.9	1.483	27.803	37.033	45.850	3196
3398	1.699	34.739	3.58	159.8	46.4	1.438	27.805	37.038	45.857	3396
3549	1.673	34.736	3.65	162.9	47.3	1.397	27.806	37.041	45.862	---

CDARWIN 19  
DATE: 12/27/86

STA: 30

TIME: 2325

LAT: 6° 36.4N

LON 61 35 4E

SONIC DEPTH: 3971 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	27.666	35.807	3.83	171.2	85.2	27.665	23.114	31.348	39.232	0.019	---	4
10	27.672	35.807	3.85	171.7	85.5	27.670	23.112	31.346	39.231	0.047	5.75	10
20	27.676	35.807	3.82	170.4	84.8	27.671	23.111	31.346	39.230	0.095	6.44	20
30	27.680	35.807	3.81	170.0	84.6	27.673	23.111	31.345	39.229	0.143	7.21	30
40	27.677	35.812	3.92	174.8	87.0	27.668	23.116	31.351	39.235	0.190	8.03	40
50	26.649	36.243	3.80	169.5	83.2	26.638	23.772	32.027	39.930	0.236	8.67	50
60	24.954	36.138	3.21	143.4	62.3	24.941	24.222	32.520	40.463	0.275	9.00	60
74	22.934	35.966	1.99	88.8	40.8	22.919	24.692	33.046	41.042	0.323	9.36	74
100	18.829	35.507	1.19	53.1	22.6	18.811	25.458	33.939	42.054	0.399	8.66	100
124	16.461	35.320	1.59	71.1	28.9	16.441	25.893	34.454	42.644	0.453	7.04	124
150	14.825	35.222	1.31	58.6	23.0	14.802	26.188	34.807	43.053	0.506	5.73	150
174	13.962	35.241	1.90	84.9	32.8	13.937	26.388	35.039	43.314	0.547	4.62	173
200	13.377	35.240	1.81	80.8	30.8	13.349	26.509	35.182	43.478	0.589	3.94	199
224	12.887	35.228	1.71	76.3	28.8	12.856	26.599	35.292	43.605	0.626	3.51	223
250	12.089	35.165	2.07	92.5	34.3	12.056	26.707	35.432	43.775	0.664	3.17	249
274	11.518	35.115	2.26	101.1	37.1	11.483	26.777	35.525	43.890	0.696	2.74	273
300	11.285	35.098	2.20	98.2	35.8	11.247	26.808	35.565	43.939	0.730	2.27	299
350	10.887	35.088	1.91	85.4	30.9	10.844	26.873	35.647	44.037	0.795	1.86	349
400	10.595	35.081	1.83	81.7	29.4	10.546	26.921	35.707	44.109	0.857	1.71	399
450	10.212	35.050	1.87	83.3	29.7	10.158	26.965	35.768	44.185	0.917	1.49	449
500	10.152	35.054	1.80	80.5	28.6	10.093	26.979	35.785	44.205	0.976	1.28	499
600	10.378	35.214	1.23	55.0	19.7	10.305	27.067	35.862	44.271	1.092	2.08	599
700	9.636	35.202	1.02	45.5	16.0	9.554	27.186	36.013	44.452	1.199	1.49	699
800	9.429	35.244	0.84	37.6	13.2	9.336	27.255	36.091	44.538	1.300	1.77	799
900	8.746	35.231	0.76	33.9	11.7	8.646	27.356	36.222	44.698	1.393	1.73	899
1000	7.979	35.171	0.89	39.8	13.5	7.873	27.428	36.329	44.838	1.479	1.41	999
1200	6.536	35.036	1.21	53.8	17.6	6.420	27.527	36.497	45.071	1.637	1.30	1198
1400	5.667	34.990	1.46	65.0	20.9	5.538	27.603	36.617	45.231	1.778	1.21	1398
1600	4.525	34.900	1.98	88.6	27.6	4.389	27.665	36.738	45.407	1.905	1.30	1598
1800	3.463	34.832	2.51	112.1	34.1	3.322	27.721	36.850	45.572	2.016	0.88	1798
2000	3.026	34.805	2.78	124.0	37.3	2.873	27.741	36.894	45.639	2.118	0.79	1998
2500	2.215	34.766	3.19	142.5	42.0	2.030	27.782	36.981	45.770	2.348	0.44	2498
3000	1.816	34.745	3.45	153.8	44.8	1.592	27.799	37.023	45.834	2.563	0.22	2997
3500	1.772	34.740	3.52	157.2	45.8	1.499	27.802	37.031	45.847	2.779	0.00	3497
3998	1.815	34.738	3.53	157.4	45.9	1.487	27.901	37.031	45.848	3.004	---	3995

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
840	9.072	35.263	0.70	31.3	10.9	8.976	27.329	36.179	44.641	848
1000	7.872	35.162	0.85	37.9	12.8	7.766	27.436	36.343	44.856	998
1199	6.536	35.037	1.15	51.3	16.8	6.420	27.527	36.498	45.071	1197
1499	5.020	34.935	1.70	75.9	24.0	4.889	27.637	36.683	45.309	1497
1799	3.618	34.847	2.36	105.4	32.2	3.475	27.718	36.838	45.552	1797
2199	2.597	34.785	2.92	130.4	38.8	2.433	27.764	36.941	45.708	2197
2599	2.110	34.759	3.24	144.6	42.5	1.918	27.785	36.991	45.785	2597
2899	1.866	34.746	3.44	153.6	44.8	1.651	27.795	37.016	45.824	2897
3199	1.784	34.742	3.51	156.7	45.6	1.541	27.800	37.027	45.841	3197
3499	1.759	34.740	3.52	157.1	45.7	1.496	27.802	37.031	45.848	3496
3799	1.794	34.739	3.55	158.5	46.2	1.488	27.802	37.031	45.848	3796
4000	1.816	34.740	3.55	158.5	46.2	1.488	27.802	37.032	45.849	---

CDARWIN 19  
DATE: 12/28/86

STA: 31

TIME: 0548

LAT: 6° 13.1N

LON: 61° 13.3E

SONIC DEPTH: 2547 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	27.683	35.591	5.08	226.9	112.9	27.682	22.945	31.182	39.068	0.029	---	6
10	27.677	35.591	5.14	229.5	114.1	27.675	22.947	31.184	39.070	0.049	6.24	10
20	27.683	35.592	5.09	227.3	113.1	27.678	22.947	31.183	39.070	0.098	6.88	20
30	27.667	35.591	5.01	223.6	111.2	27.660	22.952	31.189	39.076	0.147	7.63	30
40	27.106	36.157	4.80	214.2	105.8	27.097	23.561	31.805	39.698	0.195	8.32	40
50	25.350	36.157	4.09	182.6	87.6	25.339	24.114	32.401	40.335	0.235	8.50	50
60	24.755	36.100	3.79	169.0	80.2	24.742	24.253	32.557	40.505	0.273	8.68	60
74	22.412	35.880	2.34	104.6	47.6	22.397	24.776	33.145	41.155	0.320	8.98	74
100	18.826	35.483	1.58	70.6	30.0	18.808	25.441	33.922	42.037	0.397	8.28	100
124	16.884	35.345	1.59	71.0	29.1	16.864	25.813	34.359	42.535	0.453	6.83	124
150	15.349	35.270	1.85	82.7	32.9	15.326	26.108	34.709	42.936	0.507	5.77	150
174	14.168	35.239	2.24	100.0	38.8	14.143	26.342	34.986	43.254	0.551	4.79	173
200	13.458	35.223	2.41	107.4	41.0	13.430	26.479	35.149	43.442	0.595	4.06	199
224	13.151	35.217	2.23	99.6	37.8	13.120	26.538	35.220	43.524	0.632	3.47	223
250	12.481	35.185	2.24	99.8	37.4	12.447	26.646	35.355	43.684	0.672	3.10	249
274	12.210	35.173	2.24	99.9	37.2	12.174	26.691	35.410	43.749	0.706	2.83	273
300	11.745	35.136	2.40	107.1	39.4	11.706	26.751	35.490	43.846	0.742	2.54	299
350	11.188	35.112	2.28	102.0	37.1	11.144	26.837	35.599	43.977	0.807	2.08	349
400	10.963	35.130	1.77	79.1	28.7	10.913	26.893	35.664	44.051	0.871	1.96	399
450	10.416	35.100	1.76	78.7	28.2	10.362	26.968	35.762	44.170	0.932	1.95	449
500	10.089	35.087	1.69	75.4	26.8	10.030	27.015	35.824	44.245	0.990	1.73	499
596	9.873	35.137	1.10	49.2	17.4	9.803	27.093	35.910	44.340	1.098	---	595

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
14	27.734	35.597	4.75	212.1	105.6	27.731	22.934	31.169	39.054	14
33	27.683	35.594	4.78	213.4	106.1	27.675	22.950	31.186	39.072	33
54	26.926	36.130	4.53	202.2	99.6	26.914	23.599	31.848	39.745	54
74	22.480	35.903	1.90	84.8	38.7	22.465	24.774	33.141	41.150	74
99	17.996	35.516	1.20	53.6	22.4	17.979	25.674	34.181	42.321	99
149	14.894	35.268	1.61	71.9	28.3	14.872	26.208	34.824	43.067	148
198	13.359	35.221	1.91	85.3	32.5	13.331	26.498	35.172	43.468	198
249	12.280	35.179	2.08	92.9	34.6	12.247	26.681	35.398	43.734	248
324	11.299	35.108	2.10	93.8	34.2	11.258	26.813	35.570	43.944	324
399	10.919	35.130	1.65	73.7	26.7	10.870	26.901	35.674	44.062	398
500	10.089	35.089	1.63	72.8	25.9	10.030	27.017	35.825	44.246	499
599	9.849	35.138	1.17	52.2	18.5	9.779	27.098	35.916	44.347	---

CDARWIN 19  
DATE: 12/28/86

STA 32

TIME: 0812

LAT: 6° 13.1N

LON: 61° 16.0E

SONIC DEPTH: 2610 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.827	35.597	4.54	202.5	100.9	27.826	22.903	31.136	39.019	0.030	---	6
10	27.772	35.604	4.51	201.6	100.4	27.770	22.926	31.160	39.044	0.049	5.60	10
20	27.742	35.604	4.51	201.6	100.3	27.737	22.937	31.172	39.056	0.099	6.39	20
30	27.729	35.604	4.54	202.5	100.8	27.722	22.942	31.177	39.062	0.148	7.18	30
40	27.722	35.605	4.51	201.2	100.1	27.713	22.946	31.181	39.066	0.197	8.03	40
50	27.385	36.019	4.33	193.2	95.8	27.373	23.367	31.606	39.495	0.246	8.85	50
60	25.861	36.229	3.73	166.5	80.6	25.848	24.011	32.284	40.206	0.287	9.26	60
74	24.129	36.050	3.13	139.8	65.7	24.113	24.405	32.725	40.690	0.339	9.78	74
100	19.343	35.540	1.43	63.9	27.5	19.325	25.352	33.816	41.915	0.418	9.21	100
124	16.042	35.291	1.55	69.4	28.0	16.022	25.967	34.543	42.747	0.474	7.49	124
150	14.774	35.256	2.12	94.5	37.1	14.752	26.224	34.846	43.092	0.524	5.80	150
174	13.780	35.233	2.22	99.2	38.2	13.755	26.419	35.078	43.359	0.566	4.55	173
200	13.276	35.223	2.18	97.2	37.0	13.248	26.516	35.194	43.493	0.608	3.58	199
224	12.858	35.208	2.11	94.3	35.6	12.827	26.590	35.283	43.598	0.645	3.24	223
250	12.347	35.181	2.18	97.4	36.4	12.314	26.670	35.384	43.717	0.683	2.89	249
274	11.956	35.146	2.30	102.9	38.1	11.920	26.719	35.449	43.797	0.717	2.74	273
300	11.498	35.115	2.34	104.6	38.3	11.460	26.781	35.530	43.896	0.752	2.45	299
350	11.168	35.133	1.89	84.2	30.7	11.124	26.857	35.620	43.998	0.818	2.22	349
400	10.718	35.114	1.70	75.8	27.3	10.669	26.924	35.705	44.101	0.880	2.00	399
450	10.365	35.100	1.73	77.2	27.6	10.311	26.976	35.773	44.183	0.940	1.70	449
500	10.170	35.102	1.63	72.7	25.9	10.110	27.013	35.817	44.236	0.998	1.51	499
600	9.989	35.141	1.33	59.5	21.1	9.918	27.076	35.889	44.314	1.111	1.51	599
700	9.535	35.170	1.07	47.6	16.7	9.454	27.177	36.009	44.452	1.219	1.61	699
800	9.283	35.230	0.86	38.6	13.5	9.191	27.268	36.109	44.563	1.320	1.77	799
900	8.817	35.246	0.75	33.6	11.6	8.716	27.357	36.219	44.691	1.414	1.67	899
1000	8.053	35.171	0.87	38.7	13.2	7.946	27.417	36.315	44.820	1.501	1.67	999
1200	6.810	35.065	1.09	48.6	16.0	6.691	27.513	36.470	45.032	1.661	1.37	1198
1400	5.519	34.966	1.49	66.3	21.2	5.392	27.602	36.623	45.245	1.805	1.41	1398
1600	4.318	34.891	2.04	91.1	28.3	4.185	27.680	36.763	45.442	1.929	1.08	1598
1800	3.595	34.848	2.36	105.4	32.1	3.453	27.721	36.842	45.558	2.040	1.03	1798
2000	2.924	34.802	2.81	125.3	37.6	2.773	27.748	36.906	45.656	2.142	0.88	1998
2500	2.119	34.761	3.27	146.1	42.9	1.936	27.785	36.990	45.783	2.370	0.49	2498
2692	1.960	34.754	3.33	148.6	43.5	1.762	27.793	37.007	45.810	2.453	---	2690

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
699	9.545	35.167	1.01	45.1	15.8	9.464	27.173	36.005	44.448	698
874	9.161	35.261	0.72	32.1	11.2	9.061	27.313	36.160	44.618	873
999	8.061	35.169	0.82	36.6	12.4	7.954	27.414	36.311	44.817	997
1198	6.791	35.064	1.04	46.4	15.3	6.672	27.515	36.473	45.035	1197
1397	5.602	34.971	1.40	62.5	20.0	5.474	27.596	36.613	45.230	1395
1598	4.313	34.890	1.96	87.5	27.2	4.180	27.680	36.763	45.442	1597
1799	3.435	34.838	2.40	107.1	32.5	3.295	27.728	36.858	45.581	1797
1999	2.887	34.798	2.76	123.2	36.9	2.737	27.748	36.908	45.660	1997
2198	2.548	34.781	2.98	133.0	39.5	2.385	27.765	36.944	45.714	2196
2399	2.150	34.761	3.23	144.2	42.4	1.976	27.782	36.985	45.776	2397
2499	2.128	34.762	3.24	144.6	42.5	1.945	27.785	36.989	45.782	2497
2695	1.956	34.753	3.34	149.1	43.6	1.758	27.793	37.007	45.810	---

CDARWIN 19  
DATE: 12/28/86

STA: 33  
TIME: 1306

LAT: 5° 54.9N

LON: 60° 57' 4E

SONIC DEPTH: 2380 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.721	35.460	3.73	166.7	82.9	27.720	22.835	31.072	38.958	0.030	---	6
10	27.709	35.459	3.68	164.4	81.7	27.707	22.838	31.075	38.962	0.050	5.79	10
20	27.533	35.444	3.79	169.1	83.8	27.528	22.884	31.126	39.017	0.100	6.66	20
30	27.515	35.446	3.90	174.1	86.3	27.508	22.893	31.135	39.026	0.150	7.55	30
40	27.514	35.453	3.89	173.6	86.0	27.505	22.899	31.141	39.033	0.200	8.41	40
50	27.502	35.657	3.76	167.6	83.2	27.490	23.057	31.297	39.100	0.249	9.26	50
60	25.777	36.119	3.44	153.6	74.2	25.764	23.954	32.231	40.155	0.294	9.85	60
74	23.310	35.940	2.26	100.7	46.6	23.295	24.563	32.907	40.894	0.345	10.29	74
100	17.440	35.380	1.02	45.5	18.8	17.423	25.705	34.232	42.391	0.420	9.51	100
124	15.349	35.271	1.80	80.5	32.0	15.330	26.109	34.709	42.936	0.470	7.49	124
150	14.101	35.237	2.26	100.7	39.0	14.079	26.354	35.001	43.271	0.517	5.47	150
174	13.203	35.211	2.34	104.6	39.8	13.179	26.521	35.202	43.503	0.556	4.10	173
200	12.917	35.212	2.15	96.2	36.4	12.889	26.580	35.271	43.583	0.596	3.20	199
224	12.672	35.200	2.04	91.0	34.2	12.642	26.620	35.321	43.642	0.632	2.84	223
250	12.111	35.161	2.26	100.8	37.4	12.078	26.700	35.423	43.766	0.669	2.53	249
274	11.744	35.122	2.39	106.6	39.3	11.709	26.740	35.479	43.835	0.702	2.47	273
300	11.435	35.106	2.31	103.3	37.8	11.397	26.786	35.537	43.906	0.737	2.30	299
350	10.907	35.090	2.12	94.7	34.3	10.864	26.871	35.644	44.033	0.802	2.11	349
400	10.668	35.104	1.85	82.5	29.7	10.619	26.926	35.709	44.107	0.863	1.78	399
450	10.430	35.104	1.72	76.7	27.5	10.376	26.969	35.762	44.170	0.924	1.54	449
500	10.299	35.112	1.60	71.3	25.4	10.239	26.999	35.798	44.211	0.982	1.47	499
600	9.704	35.074	1.63	72.9	25.7	9.634	27.073	35.898	44.335	1.097	1.73	599
700	9.472	35.160	1.20	53.8	18.9	9.391	27.180	36.014	44.461	1.204	2.03	699
800	8.967	35.206	0.87	39.0	13.5	8.877	27.300	36.156	44.622	1.301	1.57	799
900	8.576	35.190	0.85	37.8	13.0	8.477	27.351	36.225	44.708	1.393	1.14	899
1000	8.110	35.164	0.90	40.2	13.7	8.003	27.402	36.298	44.801	1.481	1.72	999
1200	6.776	35.060	1.14	51.1	16.9	6.657	27.513	36.472	45.035	1.641	1.34	1198
1400	5.520	34.966	1.56	69.6	22.3	5.393	27.602	36.623	45.244	1.784	1.30	1398
1600	4.516	34.900	1.99	88.8	27.7	4.381	27.666	36.739	45.409	1.911	1.44	1598
1800	3.424	34.830	2.57	114.8	34.9	3.284	27.723	36.853	45.577	2.020	1.01	1798
2000	2.964	34.800	2.85	127.2	38.2	2.812	27.742	36.899	45.646	2.121	0.62	1998
2448	2.169	34.764	3.16	141.3	41.6	1.990	27.783	36.985	45.775	2.330	---	2446

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
699	9.514	35.152	1.14	50.9	17.9	9.433	27.167	36.000	44.444	698
799	9.009	35.207	0.84	37.5	13.0	8.919	27.294	36.148	44.612	798
899	8.693	35.216	0.78	34.8	12.0	8.593	27.353	36.221	44.699	898
999	8.088	35.164	0.88	39.3	13.4	7.981	27.406	36.302	44.807	998
1199	6.773	35.061	1.12	50.0	16.5	6.654	27.515	36.474	45.037	1198
1399	5.572	34.971	1.44	64.3	20.6	5.444	27.600	36.618	45.237	1397
1598	4.475	34.900	1.94	86.6	27.0	4.340	27.670	36.745	45.417	1596
1799	3.407	34.829	---	---	---	3.267	27.724	36.855	45.580	1797
1999	2.953	34.799	2.75	122.8	36.8	2.802	27.743	36.900	45.648	1997
2199	2.596	34.783	2.98	133.0	39.6	2.432	27.762	36.939	45.707	2197
2300	2.329	34.771	3.14	140.2	41.4	2.161	27.775	36.967	45.749	2298
2450	2.157	34.763	3.21	143.3	42.1	1.978	27.784	36.986	45.777	---

CDARWIN 19  
DATE: 12/28/86

STA: 34

TIME: 1851

LAT: 5° 31.7N

LON: 60° 32.6E

SONIC DEPTH: 3434 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	27.260	35.401	5.07	226.5	111.8	27.259	22.939	31.188	39.085	0.020	---	4
10	27.296	35.401	4.89	218.2	107.7	27.294	22.928	31.175	39.072	0.049	6.92	10
20	27.233	35.400	4.90	218.6	107.8	27.228	22.948	31.197	39.096	0.098	7.67	20
30	27.146	35.395	5.19	231.8	114.2	27.139	22.973	31.224	39.125	0.147	8.37	30
40	27.065	35.937	4.99	222.9	109.9	27.056	23.408	31.656	39.552	0.195	9.02	40
50	24.921	36.111	4.13	184.2	87.7	24.910	24.211	32.510	40.455	0.235	9.25	50
60	22.705	35.753	3.72	165.9	75.9	22.693	24.595	32.957	40.962	0.271	9.43	60
74	19.942	35.416	3.50	156.4	67.9	19.928	25.099	33.546	41.630	0.315	9.64	74
100	16.984	35.339	1.42	63.5	26.1	16.967	25.783	34.326	42.500	0.380	8.22	100
124	15.195	35.262	1.83	81.8	32.4	15.176	26.136	34.742	42.974	0.429	6.51	124
150	14.180	35.236	2.33	104.2	40.4	14.158	26.337	34.980	43.248	0.475	5.08	150
174	13.440	35.205	2.53	113.0	43.2	13.415	26.468	35.139	43.433	0.515	4.28	174
200	12.445	35.180	2.57	114.7	42.9	12.418	26.648	35.358	43.688	0.553	3.42	199
224	12.248	35.167	2.50	111.6	41.6	12.218	26.677	35.395	43.732	0.587	2.87	223
250	11.697	35.118	2.58	115.4	42.5	11.665	26.745	35.486	43.844	0.623	2.28	249
274	11.390	35.098	2.59	115.5	42.2	11.355	26.787	35.540	43.911	0.655	2.06	273
300	11.446	35.126	2.26	100.9	36.9	11.408	26.799	35.550	43.918	0.690	1.84	299
350	11.038	35.089	2.33	103.9	37.7	10.994	26.846	35.615	43.999	0.755	1.76	349
400	10.848	35.111	1.98	88.6	32.0	10.799	26.899	35.675	44.066	0.818	1.73	399
450	10.531	35.091	1.99	88.8	31.9	10.476	26.941	35.730	44.134	0.879	1.67	449
500	10.338	35.102	1.77	78.8	28.2	10.278	26.984	35.782	44.193	0.939	1.82	499
600	9.997	35.164	1.27	56.5	20.1	9.926	27.094	35.905	44.330	1.052	1.63	599
700	9.722	35.223	0.99	44.1	15.6	9.640	27.188	36.011	44.446	1.159	1.60	699
800	9.285	35.219	0.87	38.9	13.6	9.193	27.259	36.101	44.554	1.260	1.70	799
900	8.651	35.180	0.87	38.8	13.4	8.551	27.331	36.201	44.681	1.355	1.60	899
1000	8.093	35.162	0.87	38.8	13.2	7.986	27.404	36.300	44.804	1.444	1.55	999
1200	6.678	35.051	1.11	49.3	16.2	6.560	27.519	36.483	45.050	1.605	1.41	1198
1400	5.539	34.975	1.48	66.1	21.1	5.412	27.607	36.627	45.247	1.747	1.28	1398
1600	4.552	34.903	1.89	84.5	26.4	4.416	27.665	36.736	45.404	1.874	1.32	1598
1800	3.397	34.826	2.59	115.5	35.0	3.257	27.723	36.855	45.580	1.984	0.79	1798
2000	2.875	34.797	2.87	128.2	38.4	2.725	27.748	36.909	45.661	2.084	0.85	1998
2500	2.062	34.759	3.37	150.6	44.2	1.880	27.788	36.995	45.792	2.309	0.38	2498
3000	1.870	34.749	3.45	154.2	45.0	1.645	27.798	37.019	45.827	2.524	0.22	2998
3474	1.741	34.739	3.69	164.7	47.9	1.471	27.803	37.033	45.851	2.730	---	3471

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	9.209	35.212	0.83	37.1	12.9	9.118	27.265	36.111	44.567	798
999	8.123	35.162	0.83	37.1	12.6	8.016	27.399	36.294	44.797	997
1199	6.889	35.085	1.02	45.5	15.1	6.770	27.518	36.471	45.029	1197
1399	5.566	34.975	1.40	62.5	20.0	5.439	27.603	36.622	45.241	1397
1699	3.744	34.844	2.27	101.3	31.0	3.609	27.702	36.816	45.523	1697
1999	2.861	34.794	2.82	125.9	37.7	2.711	27.747	36.909	45.662	1997
2298	2.228	34.767	3.18	142.0	41.8	2.061	27.780	36.978	45.764	2296
2598	1.990	34.754	3.39	151.3	44.3	1.800	27.790	37.002	45.803	2596
2899	1.884	34.747	3.45	154.0	45.0	1.668	27.795	37.014	45.822	2896
3199	1.845	34.745	3.48	155.4	45.3	1.601	27.798	37.021	45.832	3196
3399	1.782	34.740	3.60	160.7	46.8	1.519	27.800	37.028	45.843	3397
3478	1.742	34.739	3.68	164.3	47.8	1.472	27.803	37.034	45.851	---



CDARWIN 19  
DATE: 12/29/86

STA: 35

TIME: 0051  
LAT: 5° 9.5N

LON: 60° 14.3E

SONIC DEPTH: 3323 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.253	35.468	4.70	210.0	103.6	27.252	22.992	31.240	39.137	0.029	---	6
10	27.250	35.467	4.55	203.1	100.2	27.248	22.992	31.240	39.138	0.049	6.03	10
20	27.256	35.467	4.62	206.1	101.7	27.251	22.991	31.239	39.136	0.097	6.82	20
30	27.265	35.476	4.73	211.0	104.2	27.258	22.996	31.244	39.140	0.146	7.63	30
40	27.200	35.945	4.54	202.6	100.2	27.191	23.371	31.615	39.508	0.193	8.34	40
50	26.052	36.123	4.29	191.5	93.0	26.041	23.870	32.140	40.058	0.236	8.75	50
60	24.548	36.081	3.59	160.3	75.9	24.535	24.301	32.611	40.565	0.274	9.04	60
74	22.928	35.885	2.70	120.7	55.5	22.913	24.632	32.987	40.984	0.323	9.46	74
100	17.718	35.329	2.98	133.0	55.4	17.701	25.599	34.118	42.268	0.397	8.69	100
124	15.727	35.271	1.78	79.3	31.7	15.708	26.023	34.611	42.825	0.450	7.01	124
150	14.365	35.228	2.20	98.2	38.2	14.343	26.291	34.928	43.188	0.499	5.61	150
174	13.772	35.234	2.20	98.3	37.8	13.747	26.422	35.080	43.362	0.540	4.55	173
200	12.938	35.183	2.50	111.7	42.2	12.911	26.554	35.245	43.556	0.581	3.97	199
224	11.945	35.126	2.60	116.0	42.9	11.916	26.704	35.434	43.783	0.616	3.39	223
250	11.608	35.105	2.63	117.2	43.1	11.576	26.752	35.496	43.858	0.652	2.78	249
274	11.316	35.085	2.59	115.6	42.2	11.281	26.790	35.547	43.920	0.684	2.21	273
300	11.188	35.084	2.49	111.1	40.4	11.150	26.814	35.576	43.954	0.718	1.81	299
350	11.006	35.096	2.19	97.7	35.4	10.962	26.857	35.627	44.012	0.782	1.61	349
400	10.741	35.092	1.98	88.2	31.8	10.692	26.903	35.684	44.079	0.845	1.61	399
450	10.478	35.079	1.87	83.7	30.0	10.423	26.941	35.732	44.139	0.906	1.49	449
500	10.351	35.088	1.77	79.2	28.3	10.291	26.971	35.768	44.179	0.966	1.55	499
600	10.250	35.213	1.16	51.6	18.4	10.178	27.088	35.888	44.303	1.082	1.99	599
700	9.519	35.173	0.95	42.4	14.9	9.438	27.182	36.014	44.458	1.189	1.57	699
800	9.176	35.175	0.87	38.8	13.5	9.085	27.242	36.089	44.548	1.290	1.58	799
900	8.766	35.200	0.81	36.2	12.5	8.666	27.329	36.194	44.669	1.386	1.67	899
1000	8.028	35.158	0.87	38.8	13.2	7.921	27.410	36.309	44.816	1.474	1.63	999
1200	6.721	35.065	1.10	49.1	16.2	6.603	27.525	36.486	45.051	1.635	1.54	1191
1400	5.634	34.975	1.50	66.9	21.5	5.506	27.595	36.611	45.227	1.777	1.24	1398
1600	4.653	34.909	1.92	85.8	26.9	4.516	27.658	36.724	45.387	1.905	1.39	1598
1800	3.454	34.834	2.56	114.5	34.8	3.314	27.723	36.852	45.574	2.016	1.12	1798
2000	2.816	34.800	2.91	130.1	38.9	2.667	27.756	36.920	45.675	2.114	0.88	1998
2500	2.093	34.761	3.35	149.6	43.9	1.911	27.787	36.993	45.787	2.338	0.54	2498
3000	1.880	34.749	3.53	157.6	46.0	1.654	27.797	37.017	45.825	2.554	0.22	2997
3364	1.733	34.740	3.68	164.4	47.8	1.475	27.803	37.034	45.851	2.711	---	3361

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
849	8.959	35.207	0.78	34.8	12.1	8.863	27.303	36.159	44.626	848
999	8.134	35.155	0.83	37.1	12.6	8.027	27.392	36.286	44.789	998
1199	6.844	35.074	1.05	46.9	15.5	6.725	27.515	36.471	45.031	1197
1399	5.714	34.982	1.40	62.5	20.1	5.585	27.591	36.603	45.215	1397
1699	3.976	34.869	2.12	94.6	29.1	3.838	27.799	36.800	45.496	1697
1998	2.818	34.798	2.91	129.9	38.8	2.669	27.754	36.918	45.673	1996
2299	2.263	34.768	3.19	142.4	42.0	2.096	27.778	36.974	45.759	2297
2599	2.039	34.756	3.38	150.9	44.2	1.848	27.788	36.998	45.795	2597
2800	1.952	34.751	3.48	155.4	45.4	1.744	27.792	37.007	45.811	2797
2999	1.875	34.749	3.53	157.6	46.0	1.650	27.798	37.018	45.826	2997
3200	1.806	34.743	3.62	161.6	47.1	1.562	27.799	37.025	45.838	3197
3365	1.729	34.739	3.70	165.2	48.0	1.471	27.803	37.034	45.851	---

CDARWIN 19  
DATE: 12/29/86

STA: 36

TIME: 0638

LAT: 4° 50.4N

LOD: 59° 57.2E

SONIC DEPTH: 4199 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.382	35.376	5.29	236.1	116.7	27.381	22.881	31.127	39.022	0.030	---	6
10	27.266	35.374	5.27	235.4	116.1	27.264	22.917	31.166	39.064	0.050	5.86	10
20	27.240	35.376	5.29	236.1	116.4	27.235	22.928	31.177	39.075	0.099	6.61	20
30	27.223	35.375	5.09	227.4	112.1	27.216	22.933	31.183	39.082	0.148	7.39	30
40	27.172	35.389	5.07	226.4	111.5	27.163	22.961	31.212	39.112	0.198	8.23	40
50	26.763	35.327	4.94	220.7	108.3	26.752	23.498	31.752	39.656	0.245	9.01	50
60	25.700	36.129	4.59	204.8	98.9	25.687	23.985	32.264	40.190	0.287	9.48	60
74	23.031	35.917	3.01	134.3	61.8	23.016	24.627	32.978	40.972	0.337	9.91	74
100	18.565	35.386	2.76	123.1	52.1	18.547	25.433	33.923	42.048	0.414	9.22	100
124	15.387	35.263	2.08	92.8	36.9	15.368	26.094	34.693	42.919	0.467	7.30	124
150	14.235	35.238	2.31	103.3	40.1	14.213	26.326	34.968	43.233	0.515	5.42	150
174	13.959	35.230	2.34	104.4	40.3	13.934	26.379	35.031	43.306	0.557	4.06	173
200	13.400	35.236	1.95	87.1	33.3	13.372	26.501	35.173	43.468	0.599	3.33	199
224	12.954	35.198	2.24	100.0	37.8	12.923	26.562	35.252	43.563	0.636	3.11	223
250	12.506	35.161	2.41	107.5	40.3	12.472	26.623	35.331	43.659	0.676	3.02	249
274	11.866	35.124	2.36	105.4	38.9	11.830	26.718	35.452	43.804	0.710	2.81	273
300	11.586	35.098	2.45	109.6	40.2	11.548	26.752	35.497	43.860	0.746	2.54	299
350	11.172	35.111	2.17	96.8	35.2	11.128	26.839	35.601	43.980	0.811	2.02	349
400	10.783	35.087	2.04	90.9	32.8	10.734	26.892	35.670	44.064	0.875	1.76	399
450	10.509	35.080	1.79	79.9	28.7	10.454	26.936	35.726	44.131	0.937	1.67	449
500	10.298	35.092	1.65	73.8	26.3	10.238	26.983	35.782	44.196	0.997	1.64	499
600	10.105	35.140	1.29	57.7	20.5	10.033	27.056	35.863	44.284	1.113	---	599

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	27.233	35.377	4.85	216.5	106.8	27.230	22.930	31.180	39.078	14
55	26.621	35.983	4.57	204.0	99.9	26.608	23.585	31.843	39.749	54
63	25.949	36.133	4.08	182.1	88.3	25.935	23.911	32.183	40.104	63
79	23.174	35.974	2.65	118.3	54.6	23.158	24.628	32.975	40.965	79
109	18.518	35.407	2.23	99.6	42.1	18.499	25.461	33.952	42.078	108
129	15.482	35.269	1.73	77.2	30.8	15.462	26.077	34.673	42.896	128
149	14.397	35.244	1.84	82.1	32.0	14.375	26.297	34.932	43.192	148
179	13.866	35.095	2.00	89.3	34.4	13.840	26.295	34.952	43.232	178
324	11.213	35.088	2.10	93.8	34.1	11.172	26.813	35.574	43.951	323
399	10.774	35.088	1.87	83.5	30.1	10.725	26.894	35.673	44.068	398
499	10.297	35.093	1.59	71.0	25.3	10.237	26.984	35.784	44.197	498
602	10.106	35.142	1.25	55.8	19.8	10.034	27.058	35.865	44.285	---

CDARWIN 19  
DATE: 12/29/86

STA: 37

TIME: 0853

LAT: 4° 46.9N

LON: 69° 55.0E

SONIC DEPTH: 4383 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	27.604	35.386	5.19	231.7	115.0	27.603	22.817	31.057	38.947	0.020	---	4
10	27.345	35.381	5.11	228.0	112.6	27.343	22.897	31.144	39.040	0.050	5.06	10
20	27.285	35.385	5.11	228.0	112.5	27.280	22.920	31.168	39.066	0.100	5.78	20
30	27.269	35.386	5.20	232.4	114.6	27.262	22.927	31.175	39.073	0.149	6.71	30
40	27.230	35.385	5.14	229.5	113.1	27.221	22.939	31.189	39.087	0.198	7.67	40
50	27.154	35.393	5.05	225.5	111.0	27.143	22.970	31.222	39.122	0.248	8.63	50
60	26.431	36.006	4.93	220.2	107.5	26.417	23.663	31.926	39.836	0.294	9.39	60
74	24.672	36.059	4.13	184.5	87.5	24.656	24.248	32.554	40.506	0.349	10.13	74
100	19.143	35.449	2.44	109.0	46.7	19.125	25.334	33.805	41.912	0.435	9.84	100
124	15.490	35.245	3.13	139.6	55.6	15.471	26.057	34.653	42.875	0.490	8.05	124
150	14.418	35.238	2.42	108.1	42.1	14.396	26.288	34.922	43.181	0.538	5.97	149
174	13.684	35.218	2.67	119.0	45.7	13.659	26.428	35.090	43.375	0.579	4.43	173
200	13.155	35.215	2.35	104.8	39.8	13.127	26.534	35.216	43.520	0.620	3.51	199
224	12.795	35.183	2.55	113.7	42.8	12.764	26.583	35.279	43.596	0.657	3.08	223
250	12.097	35.140	2.56	114.4	42.5	12.064	26.686	35.410	43.753	0.695	2.76	249
274	11.868	35.129	2.54	113.2	41.8	11.832	26.722	35.455	43.807	0.728	2.49	273
300	11.478	35.099	2.67	119.2	43.6	11.440	26.772	35.522	43.889	0.764	2.27	299
350	11.102	35.088	2.42	108.1	39.3	11.058	26.834	35.599	43.981	0.830	1.94	349
400	10.903	35.104	2.20	98.3	35.6	10.853	26.884	35.657	44.046	0.894	1.61	399
450	10.616	35.083	2.04	90.8	32.7	10.561	26.919	35.705	44.106	0.956	1.64	449
500	10.399	35.090	1.87	83.5	29.9	10.339	26.964	35.759	44.169	1.017	1.70	499
600	10.125	35.145	1.49	66.4	23.6	10.053	27.057	35.863	44.283	1.134	1.86	599
700	9.622	35.172	1.06	47.2	16.6	9.540	27.165	35.992	44.433	1.243	1.72	699
800	9.050	35.163	0.93	41.5	14.4	8.960	27.253	36.106	44.570	1.345	1.69	799
900	8.551	35.167	0.88	39.3	13.5	8.452	27.337	36.212	44.696	1.439	1.60	899
1000	7.875	35.133	0.91	40.8	13.8	7.769	27.413	36.319	44.833	1.528	1.81	998
1200	6.590	35.053	1.20	53.5	17.6	6.473	27.533	36.501	45.072	1.685	1.37	1198
1400	5.371	34.956	1.64	73.2	23.3	5.245	27.612	36.640	45.269	1.824	1.24	1398
1600	4.243	34.882	2.15	95.9	29.7	4.111	27.680	36.767	45.450	1.946	1.12	1598
1800	3.377	34.832	2.61	116.5	35.3	3.238	27.729	36.862	45.588	2.055	1.01	1798
2000	2.857	34.802	2.87	128.3	38.4	2.707	27.753	36.915	45.668	2.154	0.79	1998
2500	2.161	34.764	3.33	148.8	43.7	1.977	27.784	36.987	45.778	2.379	0.49	2498
3000	1.855	34.747	3.62	161.4	47.1	1.630	27.798	37.019	45.829	2.597	0.44	2997
3500	1.636	34.735	3.86	172.2	50.0	1.366	27.807	37.044	45.867	2.810	0.38	3497
4000	1.556	34.729	3.96	176.9	51.2	1.235	27.812	37.056	45.886	3.022	0.00	3997
4428	1.587	34.728	3.98	177.5	51.4	1.217	27.812	37.057	45.889	3.209	---	4425

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
798	9.034	35.167	0.87	38.8	13.5	8.944	27.254	36.108	44.572	797
999	7.987	---	---	---	---	---	---	---	---	---
1199	6.738	35.067	1.10	49.1	16.2	6.620	27.524	36.485	45.049	1197
1598	4.424	34.893	1.99	88.8	27.7	4.290	27.670	36.748	45.422	1596
1999	2.805	34.802	2.75	122.8	36.7	2.656	27.758	36.923	45.678	1997
2400	2.220	34.766	3.25	145.1	42.7	2.044	27.781	36.979	45.767	2397
2799	1.983	34.751	3.46	154.5	45.2	1.775	27.790	37.003	45.805	2796
3199	1.750	34.739	3.71	165.6	48.2	1.508	27.800	37.029	45.845	3196
3599	1.608	34.733	3.88	173.2	50.2	1.329	27.808	37.047	45.872	3596
3899	1.560	34.729	3.96	176.8	51.2	1.250	27.811	37.054	45.883	3896
4200	1.562	34.728	3.97	177.2	51.3	1.219	27.812	37.057	45.888	4196
4431	1.587	34.727	3.98	177.7	51.5	1.217	27.811	37.056	45.888	---

CDARWIN 19  
DATE: 12/29/86

STA: 38

TIME: 1516

LAT: 4° 30.2N

LON: 69° 40.0E

SONIC DEPTH: 4209 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.546	35.315	5.22	233.0	115.5	27.545	22.782	31.025	38.916	0.030	---	6
10	27.510	35.315	5.19	231.7	114.7	27.508	22.794	31.037	38.930	0.051	6.05	10
20	27.349	35.332	5.27	235.1	116.1	27.344	22.859	31.107	39.003	0.101	6.74	20
30	27.323	35.346	5.35	239.0	118.0	27.316	22.879	31.127	39.024	0.151	7.48	30
40	27.258	35.359	5.37	239.7	118.2	27.249	22.910	31.160	39.058	0.201	8.25	40
50	26.437	35.559	5.43	242.3	118.0	26.426	23.323	31.590	39.505	0.249	9.01	50
60	24.723	35.807	4.92	219.7	104.1	24.710	24.041	32.349	40.301	0.291	9.48	60
74	22.614	35.735	3.97	177.2	80.9	22.599	24.608	32.973	40.980	0.341	9.95	74
100	18.806	35.435	2.88	128.6	54.7	18.788	25.409	33.891	42.008	0.419	9.28	100
124	15.479	35.235	2.94	131.2	52.2	15.460	26.051	34.648	42.871	0.474	7.59	124
150	14.194	35.222	2.89	128.9	50.0	14.172	26.323	34.966	43.233	0.521	5.63	150
174	13.801	35.233	2.34	104.3	40.1	13.776	26.415	35.072	43.353	0.562	4.28	173
200	12.912	35.185	2.43	108.5	41.0	12.885	26.560	35.252	43.564	0.603	3.22	199
224	12.770	35.178	2.39	106.9	40.3	12.740	26.583	35.281	43.599	0.640	2.84	223
250	12.313	35.152	2.32	103.4	38.6	12.280	26.654	35.370	43.705	0.678	2.70	249
274	12.067	35.136	2.25	100.6	37.3	12.031	26.690	35.415	43.760	0.713	2.61	273
300	11.580	35.105	2.23	99.7	36.6	11.542	26.758	35.504	43.867	0.749	2.65	299
350	11.085	35.097	2.00	89.3	32.4	11.041	26.844	35.610	43.992	0.815	2.23	349
400	10.674	35.079	1.79	80.1	28.8	10.625	26.905	35.688	44.087	0.877	1.70	399
450	10.511	35.083	1.68	75.2	27.0	10.456	26.938	35.728	44.133	0.938	1.52	449
500	10.346	35.091	1.57	70.2	25.1	10.286	26.974	35.771	44.183	0.999	1.73	499
600	10.063	35.146	1.23	54.9	19.5	9.992	27.068	35.877	44.299	1.114	1.54	599
700	9.742	35.183	0.91	40.7	14.4	9.660	27.153	35.976	44.411	1.223	1.73	699
800	9.298	35.212	0.78	34.8	12.2	9.206	27.251	36.093	44.545	1.326	1.86	799
900	8.678	35.198	0.71	31.8	11.0	8.578	27.341	36.210	44.689	1.420	1.62	899
1000	8.012	35.143	0.73	32.6	11.1	7.905	27.400	36.301	44.808	1.509	1.62	999
1196	6.274	35.014	1.02	45.4	14.8	6.160	27.543	36.526	45.112	1.662	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	27.345	35.343	4.99	222.8	110.0	27.339	22.869	31.117	39.013	24
39	27.295	35.361	5.08	226.8	111.9	27.286	22.900	31.148	39.046	39
59	25.881	35.668	4.46	199.1	96.1	25.868	23.581	31.860	39.787	59
98	18.497	35.435	2.17	96.9	40.9	18.480	25.487	33.979	42.105	97
114	16.644	35.337	1.52	67.9	27.6	16.525	25.886	34.444	42.631	113
133	14.345	35.210	2.60	116.1	45.2	14.325	26.281	34.918	43.180	133
299	11.436	35.102	2.08	92.9	34.0	11.398	26.782	35.534	43.903	298
499	10.313	35.091	1.51	67.4	24.1	10.253	26.980	35.778	44.191	498
649	10.012	35.187	1.06	47.3	16.8	9.935	27.110	35.920	44.344	648
799	9.233	35.189	0.80	35.7	12.5	9.142	27.244	36.088	44.544	798
999	8.076	35.151	0.82	36.6	12.4	7.969	27.397	36.295	44.799	998
1199	6.257	35.014	1.23	54.9	17.9	6.143	27.545	36.530	45.116	---

CDARWIN 19  
DATE: 12/29/86

STA: 39

TIME: 1902

LAT: 4° 15.9N

LON: 59° 24.0E

SONIC DEPTH: 4479 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.350	35.275	4.36	194.6	96.1	27.348	22.815	31.063	38.960	0.040	---	8
10	27.354	35.275	4.34	193.7	95.6	27.352	22.814	31.062	38.958	0.050	5.05	10
20	27.351	35.275	4.35	194.2	95.9	27.346	22.816	31.063	38.960	0.101	5.65	20
30	27.322	35.274	4.43	197.6	97.5	27.315	22.825	31.074	38.971	0.151	6.35	30
40	27.205	35.275	4.50	200.9	99.0	27.196	22.864	31.115	39.016	0.201	7.15	40
50	27.079	35.283	4.78	213.3	104.9	27.067	22.911	31.166	39.069	0.251	8.00	50
60	26.081	35.755	4.48	200.2	97.0	26.068	23.584	31.857	39.779	0.298	8.72	60
74	24.009	35.756	3.87	172.9	80.9	23.993	24.218	32.545	40.516	0.354	9.33	74
100	21.548	35.636	2.67	119.4	53.4	21.529	24.835	33.231	41.268	0.446	9.61	100
124	17.673	35.372	2.45	109.6	45.6	17.652	25.643	34.163	42.315	0.512	8.53	124
150	14.985	35.276	1.99	89.0	35.1	14.962	26.194	34.807	43.047	0.567	6.94	149
174	14.008	35.186	3.16	141.3	54.6	13.983	26.336	34.986	43.260	0.610	5.36	173
200	13.215	35.168	2.78	124.0	47.1	13.187	26.486	35.167	43.469	0.653	4.05	199
224	12.677	35.171	2.43	108.4	40.7	12.647	26.596	35.297	43.619	0.690	3.17	223
250	12.532	35.166	2.32	103.6	38.8	12.498	26.622	35.329	43.656	0.728	2.75	249
274	12.117	35.143	2.26	101.1	37.5	12.081	26.685	35.409	43.751	0.763	2.60	273
300	11.868	35.127	2.17	96.7	35.7	11.829	26.721	35.455	43.807	0.800	2.58	299
350	11.138	35.095	1.96	87.3	31.8	11.094	26.833	35.596	43.977	0.867	2.27	349
400	10.711	35.081	1.73	77.2	27.8	10.662	26.900	35.682	44.079	0.930	1.76	399
450	10.532	35.070	1.60	71.6	25.7	10.477	26.924	35.714	44.118	0.992	1.28	449
500	10.398	35.045	1.52	67.9	24.3	10.338	26.929	35.725	44.135	1.053	1.82	499
600	10.047	35.134	1.17	52.4	18.6	9.976	27.061	35.871	44.294	1.170	1.76	599
700	9.826	35.217	0.84	37.4	13.2	9.743	27.166	35.984	44.415	1.279	1.99	699
800	9.144	35.202	0.81	36.0	12.5	9.053	27.268	36.117	44.576	1.379	1.63	799
900	8.432	35.155	0.76	34.1	11.7	8.334	27.345	36.226	44.715	1.473	1.70	899
1000	7.812	35.144	0.81	36.1	12.2	7.707	27.431	36.340	44.856	1.559	1.70	998
1200	6.036	34.980	1.28	57.0	18.5	6.924	27.547	36.542	45.139	1.711	1.26	1198
1400	5.068	34.917	1.65	73.7	23.3	4.946	27.616	36.660	45.302	1.846	1.08	1398
1600	4.275	34.875	2.10	93.9	29.1	4.143	27.671	36.757	45.438	1.970	1.19	1598
1800	3.316	34.818	2.55	113.9	34.5	3.177	27.723	36.860	45.589	2.080	1.17	1798
2000	2.761	34.788	2.87	128.0	38.2	2.613	27.751	36.918	45.676	2.179	0.85	1998
2500	2.116	34.759	3.25	145.1	42.6	1.933	27.784	36.989	45.782	2.404	0.31	2498
3000	1.834	34.744	3.57	159.2	46.4	1.609	27.797	37.020	45.830	2.622	0.49	2997
3500	1.595	34.732	3.88	173.2	50.2	1.326	27.808	37.047	45.872	2.833	0.22	3497
4000	1.478	34.726	4.01	179.2	51.8	1.159	27.814	37.063	45.897	3.044	0.38	3997
4500	1.484	34.724	4.07	181.8	52.5	1.109	27.816	37.068	45.905	3.257	-0.22	4497
4546	1.489	34.724	4.09	182.5	52.7	1.109	27.816	37.068	45.905	3.277	---	4543

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
797	9.166	35.203	0.80	35.7	12.4	9.075	27.265	36.113	44.571	795
999	7.824	35.145	0.81	36.2	12.2	7.719	27.430	36.339	44.854	997
1199	6.033	34.980	1.30	58.0	18.8	5.921	27.547	36.542	45.139	1198
1599	4.279	34.876	2.05	91.5	28.4	4.147	27.672	36.757	45.438	1597
1998	2.773	34.788	2.89	129.0	38.5	2.625	27.750	36.916	45.674	1996
2399	2.193	34.764	3.23	144.2	42.4	2.018	27.781	36.981	45.770	2397
2799	1.998	34.754	3.42	152.7	44.7	1.789	27.791	37.004	45.805	2797
3199	1.740	34.739	3.71	165.6	48.2	1.498	27.801	37.030	45.846	3196
3600	1.580	34.730	3.89	173.7	50.3	1.301	27.808	37.048	45.875	3597
3999	1.478	34.725	4.04	180.4	52.1	1.159	27.814	37.062	45.896	3996
4299	1.476	34.724	4.10	183.0	52.9	1.124	27.815	37.066	45.902	4296
4547	1.489	34.724	4.09	182.6	52.8	1.109	27.816	37.068	45.905	---

CDARWIN 19  
DATE: 12/30/86

STA: 40

TIME: 0138

LAT: 3° 57.9N

LON: 59° 9.2E

SONIC DEPTH: 4247 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.188	35.243	4.33	193.3	95.2	27.186	22.843	31.095	38.996	0.040	---	8
10	27.191	35.243	4.31	192.5	94.8	27.189	22.842	31.094	38.995	0.050	5.64	10
20	27.194	35.243	4.33	193.2	95.1	27.189	22.842	31.094	38.995	0.100	6.22	20
30	27.190	35.246	4.34	193.8	95.4	27.183	22.847	31.099	39.000	0.150	6.83	30
40	27.165	35.262	4.33	193.5	95.2	27.156	22.867	31.119	39.021	0.200	7.55	40
50	25.736	35.489	4.40	196.6	94.6	25.725	23.490	31.775	39.707	0.249	8.29	50
60	24.376	35.701	3.83	171.0	80.5	24.363	24.066	32.384	40.346	0.290	8.57	60
74	23.232	35.648	3.45	154.2	71.2	23.217	24.364	32.713	40.705	0.342	9.01	74
100	20.945	35.481	2.85	127.2	56.3	20.926	24.882	33.298	41.353	0.429	9.03	100
124	17.335	35.334	2.85	127.4	52.6	17.314	25.697	34.228	42.391	0.494	7.95	124
150	15.107	35.240	2.67	119.3	47.1	15.084	26.139	34.749	42.985	0.549	6.67	149
174	14.315	35.229	2.22	99.2	38.6	14.289	26.303	34.941	43.204	0.593	5.42	173
200	13.382	35.218	2.12	94.6	36.1	13.354	26.490	35.164	43.460	0.637	4.32	199
224	12.722	35.189	2.02	90.0	33.9	12.692	26.602	35.301	43.621	0.675	3.65	223
250	12.221	35.148	2.05	91.6	34.1	12.188	26.669	35.388	43.727	0.712	3.04	249
274	11.882	35.129	2.01	89.7	33.2	11.846	26.720	35.453	43.804	0.746	2.59	273
300	11.575	35.119	1.89	84.2	30.9	11.536	26.769	35.515	43.878	0.782	2.22	299
350	11.188	35.108	1.79	79.9	29.1	11.144	26.834	35.595	43.974	0.848	2.00	349
400	10.798	35.096	1.71	76.4	27.6	10.749	26.896	35.674	44.067	0.911	1.85	399
450	10.550	35.088	1.65	73.6	26.4	10.495	26.935	35.723	44.127	0.973	1.67	449
500	10.320	35.090	1.52	67.9	24.3	10.260	26.978	35.776	44.189	1.033	1.64	499
600	10.071	35.144	1.23	55.0	19.5	10.000	27.065	35.874	44.296	1.149	2.04	599
700	9.326	35.154	1.02	45.5	15.9	9.246	27.199	36.040	44.492	1.255	1.81	699
800	8.845	35.172	0.88	39.5	13.7	8.756	27.293	36.154	44.626	1.353	1.63	799
900	8.373	35.160	0.88	39.2	13.4	8.281	27.357	36.240	44.731	1.444	1.49	899
1000	7.577	35.098	0.92	41.2	13.8	7.474	27.429	36.349	44.876	1.530	1.65	999
1194	6.177	34.992	1.28	57.3	18.6	6.064	27.538	36.526	45.116	1.681	---	1192

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	27.196	35.242	4.84	216.1	106.4	27.191	22.841	31.093	38.994	23
44	27.115	35.278	4.87	217.4	106.9	27.105	22.896	31.149	39.051	44
104	20.433	35.462	2.69	120.1	52.6	20.413	25.006	33.437	41.507	103
125	17.286	35.334	2.58	115.2	47.5	17.265	25.708	34.241	42.405	124
139	16.505	35.311	2.41	107.6	43.7	16.483	25.876	34.436	42.625	139
164	14.499	35.207	2.79	124.6	48.6	14.475	26.247	34.879	43.135	164
299	11.576	35.118	1.97	87.9	32.3	11.538	26.769	35.514	43.878	298
399	10.805	35.092	1.76	78.6	28.4	10.756	26.892	35.670	44.063	398
650	9.823	35.198	0.98	43.8	15.5	9.747	27.150	35.969	44.400	648
799	8.848	35.171	0.90	40.2	13.9	8.759	27.291	36.153	44.625	798
999	7.577	35.099	0.91	40.6	13.6	7.474	27.430	36.350	44.877	998
1198	6.124	---	1.33	59.4	8.0	---	---	---	---	---

CDARWIN 19  
DATE: 12/30/86

STA: 41

TIME: 0525

LAT: 3° 41.2N

LON: 68° 54 4E

SONIC DEPTH: 4551 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.339	35.312	4.30	192.0	94.8	27.337	22.846	31.094	38.991	0.040	---	8
10	27.334	35.312	4.34	193.8	95.7	27.332	22.848	31.096	38.993	0.050	6.04	10
20	27.322	35.311	4.24	189.5	93.5	27.317	22.852	31.100	38.997	0.100	6.59	20
30	27.311	35.317	4.12	184.0	90.8	27.304	22.861	31.109	39.007	0.150	7.13	30
40	27.161	35.332	4.08	182.3	89.8	27.152	22.921	31.173	39.074	0.200	7.74	40
50	24.839	35.415	4.09	182.5	86.5	24.828	23.709	32.018	39.972	0.246	8.22	50
60	23.778	35.377	3.80	169.4	78.8	23.765	23.998	32.336	40.317	0.286	8.51	60
74	21.483	35.342	3.56	159.0	71.0	21.469	24.627	33.029	41.071	0.336	8.81	74
100	20.476	35.354	3.22	143.8	63.0	20.457	24.912	33.343	41.413	0.419	8.60	100
124	17.453	35.361	3.01	134.5	55.7	17.432	25.689	34.216	42.374	0.485	7.77	124
150	15.871	35.304	2.65	118.3	47.5	15.847	26.017	34.599	42.808	0.541	6.68	149
174	14.091	35.230	2.82	125.7	48.7	14.066	26.352	34.998	43.269	0.586	5.60	173
200	13.209	35.210	2.29	102.4	38.9	13.181	26.519	35.199	43.501	0.628	4.38	199
224	12.843	35.206	2.23	99.4	37.5	12.812	26.590	35.285	43.600	0.666	3.70	223
250	12.236	35.184	2.17	96.8	35.1	12.203	26.694	35.412	43.750	0.703	3.14	249
274	11.709	35.142	2.07	92.5	34.1	11.674	26.762	35.502	43.860	0.736	2.67	273
300	11.424	35.111	2.11	94.0	34.4	11.386	26.792	35.544	43.912	0.771	2.24	299
350	11.053	35.094	1.97	87.7	31.8	11.009	26.848	35.615	43.998	0.836	1.86	349
400	10.726	35.084	1.88	84.1	30.3	10.677	26.899	35.681	44.077	0.899	1.67	399
450	10.539	35.091	1.73	77.1	27.7	10.484	26.939	35.728	44.132	0.960	1.58	449
500	10.340	35.096	1.67	74.4	26.6	10.280	26.979	35.776	44.188	1.020	1.77	499
600	10.121	35.172	1.19	53.1	18.9	10.049	27.078	35.884	44.304	1.135	1.88	599
700	9.576	35.175	1.02	45.4	16.0	9.495	27.175	36.005	44.446	1.242	1.93	699
800	8.993	35.186	0.89	40.0	13.9	8.903	27.280	36.135	44.601	1.341	2.03	799
900	8.340	35.175	0.89	39.6	13.5	8.242	27.375	36.259	44.752	1.432	1.89	899
1000	7.258	35.098	1.06	47.3	15.8	7.157	27.475	36.410	44.950	1.513	1.49	999
1200	6.159	34.966	1.42	63.4	20.6	6.046	27.520	36.510	45.101	1.663	0.98	1198
1400	5.236	34.937	1.75	77.9	24.7	5.112	27.612	36.648	45.282	1.803	1.62	1398
1600	3.933	34.857	2.33	103.9	32.0	3.805	27.693	36.796	45.494	1.922	1.10	1598
1800	3.378	34.812	2.67	119.3	36.2	3.239	27.713	36.846	45.572	2.030	0.96	1798
2000	2.914	34.790	2.91	130.0	39.0	2.763	27.739	36.898	45.649	2.131	0.85	1998
2500	2.107	34.756	3.36	150.1	44.1	1.924	27.782	36.987	45.781	2.362	0.54	2498
3000	1.842	34.741	3.64	162.5	47.4	1.617	27.793	37.016	45.826	2.580	0.44	2997
3500	1.624	34.730	3.89	173.7	50.4	1.354	27.804	37.042	45.866	2.796	0.70	3497
4000	1.461	34.722	4.10	183.2	52.9	1.143	27.813	37.062	45.897	3.007	0.31	3997
4500	1.412	34.718	4.25	189.7	54.7	1.039	27.816	37.072	45.913	3.218	0.00	4497
4600	1.394	34.717	4.27	190.8	55.0	1.010	27.817	37.075	45.917	3.261	---	4597

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	9.113	35.180	0.89	39.7	13.8	9.022	27.256	36.106	44.567	797
999	7.529	35.097	0.95	42.4	14.2	7.426	27.435	36.358	44.887	998
1298	5.706	34.952	1.53	68.3	21.9	5.587	27.567	36.579	45.191	1297
1599	4.078	34.861	2.15	96.0	29.6	3.948	27.681	36.777	45.468	1597
1999	2.895	34.790	2.87	128.1	38.4	2.745	27.741	36.901	45.652	1997
2398	2.244	34.762	3.23	144.2	42.5	2.068	27.776	36.973	45.759	2396
2799	1.963	34.747	3.46	154.5	45.2	1.755	27.788	37.003	45.806	2797
3198	1.767	34.736	3.70	165.2	48.1	1.525	27.797	37.024	45.839	3195
3599	1.566	34.727	3.90	174.1	50.4	1.288	27.806	37.048	45.875	3597
3999	1.461	34.720	4.11	183.5	53.0	1.143	27.811	37.060	45.896	3996
4400	1.416	34.718	4.17	186.2	53.7	1.055	27.815	37.070	45.910	4397
4603	1.394	34.717	4.21	187.9	54.2	1.010	27.817	37.074	45.917	---

SONIC DEPTH: 4550 m

[illegible]



CDARWIN 19  
DATE: 12/30/86

STA: 43

LAT: 3° 13.4N  
TIME: 1429

LON: 68° 29.2E

SONIC DEPTH: 4939 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.571	35.312	4.78	213.3	105.7	27.569	22.772	31.014	38.905	0.041	---	8
10	27.565	35.311	4.80	214.2	106.2	27.563	22.773	31.016	38.907	0.051	6.69	10
20	27.489	35.314	4.82	215.0	106.4	27.484	22.801	31.045	38.938	0.101	7.37	20
30	27.338	35.332	4.84	216.0	106.7	27.331	22.863	31.111	39.008	0.152	7.91	30
40	26.972	35.391	4.82	215.2	105.7	26.963	23.026	31.282	39.186	0.201	8.42	40
50	25.948	35.455	4.78	213.4	103.1	25.937	23.398	31.679	39.606	0.247	8.78	50
60	24.335	35.385	4.42	197.3	92.7	24.322	23.838	32.161	40.128	0.291	9.11	60
74	20.240	35.356	3.68	164.2	71.6	20.226	24.974	33.413	41.489	0.338	9.02	74
100	18.651	35.307	3.21	143.2	60.6	18.633	25.350	33.839	41.962	0.409	7.83	100
124	17.987	35.299	3.19	142.3	59.5	17.966	25.510	34.021	42.164	0.471	6.65	124
150	16.743	35.270	3.08	137.5	56.1	16.719	25.789	34.341	42.524	0.534	6.22	150
174	14.338	35.209	3.16	141.1	54.9	14.312	26.283	34.921	43.183	0.581	5.81	173
200	13.274	35.174	2.74	122.4	46.6	13.246	26.479	35.157	43.457	0.625	4.80	199
224	12.747	35.148	2.85	127.0	47.8	12.716	26.565	35.264	43.583	0.663	3.64	223
250	12.558	35.170	2.29	102.3	38.3	12.524	26.620	35.326	43.652	0.702	2.91	249
274	12.168	35.150	2.15	96.1	35.7	12.132	26.681	35.402	43.743	0.736	2.78	273
300	11.866	35.132	2.09	93.4	34.5	11.827	26.725	35.459	43.811	0.773	2.72	299
350	10.791	35.041	2.22	99.2	35.8	10.748	26.853	35.632	44.026	0.839	2.08	349
400	10.564	35.024	2.20	98.4	35.3	10.516	26.881	35.670	44.073	0.902	1.49	399
450	10.613	35.092	1.69	75.6	27.2	10.558	26.927	35.713	44.114	0.965	1.61	449
500	10.454	35.093	1.61	71.8	25.7	10.393	26.957	35.750	44.157	1.025	1.51	499
600	9.936	35.124	1.26	58.2	19.9	9.865	27.072	35.887	44.314	1.143	2.07	599
700	9.407	35.166	0.98	43.6	15.3	9.327	27.196	36.033	44.481	1.250	1.98	699
800	8.876	35.178	0.92	41.1	14.2	8.787	27.292	36.152	44.623	1.347	1.69	799
900	7.973	35.088	1.05	46.7	15.8	7.878	27.361	36.263	44.773	1.439	1.60	899
1000	7.229	35.022	1.09	48.8	16.3	7.128	27.419	36.356	44.899	1.524	1.49	999
1200	6.228	35.009	1.28	57.1	18.6	6.114	27.545	36.531	45.119	1.678	1.03	1198
1210	6.090	34.994	1.30	58.2	18.9	5.977	27.551	36.543	45.138	1.685	---	1208

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
14	27.534	35.314	4.90	218.8	108.4	27.531	22.786	31.029	38.921	14
49	25.972	35.458	4.85	216.5	104.6	25.961	23.393	31.673	39.599	49
89	18.775	35.312	2.81	125.4	53.3	18.759	25.322	33.807	41.926	89
164	14.961	35.234	3.06	136.6	53.8	14.936	26.167	34.782	43.023	163
224	12.750	35.147	2.79	124.6	46.9	12.719	26.563	35.262	43.581	223
374	10.618	35.018	2.37	105.8	38.0	10.573	26.867	35.653	44.054	373
499	10.456	35.093	1.67	74.6	26.7	10.396	26.956	35.749	44.156	498
599	9.934	35.124	1.31	58.5	20.7	9.863	27.073	35.887	44.315	598
784	8.943	35.170	0.90	40.2	13.9	8.855	27.275	36.132	44.600	783
1006	7.236	35.024	1.09	48.7	16.2	7.135	27.419	36.356	44.899	1004
1075	7.179	35.091	1.03	46.0	15.3	7.070	27.481	36.420	44.964	1074
1214	6.048	34.992	1.34	59.8	19.4	5.935	27.555	36.549	45.146	---

CDARWIN 19  
DATE: 12/30/86

STA: 44

TIME: 1937

LAT: 2° 46.4N

LON 58° 3' 8E

SONIC DEPTH: 5186 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.535	35.285	5.16	230.1	114.0	27.533	22.763	31.007	38.899	0.041	---	8
10	27.535	35.285	5.18	231.2	114.5	27.533	22.763	31.007	38.899	0.051	6.46	10
20	27.500	35.287	5.07	226.6	112.1	27.495	22.777	31.021	38.915	0.102	7.24	20
30	27.303	35.307	5.16	230.3	113.6	27.296	22.856	31.105	39.003	0.152	7.85	30
40	26.701	35.369	5.32	237.5	116.0	26.692	23.096	31.359	39.269	0.201	8.35	40
50	25.615	35.486	5.45	243.1	116.8	25.604	23.525	31.814	39.748	0.247	8.72	50
60	25.007	35.520	5.12	228.7	108.7	24.994	23.738	32.041	39.990	0.290	9.05	60
74	21.094	35.404	4.34	193.8	85.9	21.080	24.781	33.194	41.245	0.340	9.19	74
100	18.610	35.311	3.58	160.0	67.7	18.592	25.364	33.854	41.978	0.412	7.73	100
124	17.767	35.295	3.48	155.4	64.7	17.746	25.562	34.079	42.229	0.474	6.29	124
150	17.182	35.283	3.24	144.7	59.6	17.157	25.695	34.232	42.401	0.536	5.42	150
174	15.936	35.282	3.83	171.2	68.8	15.909	25.987	34.567	42.774	0.590	5.57	173
200	14.090	35.211	3.62	161.7	62.6	14.061	26.338	34.986	43.256	0.638	4.95	199
224	13.385	35.149	3.96	176.9	67.5	13.353	26.437	35.111	43.408	0.679	4.20	223
250	12.907	35.127	3.73	166.3	62.8	12.873	26.517	35.210	43.524	0.721	3.24	249
274	12.528	35.122	3.59	160.1	60.0	12.491	26.589	35.297	43.625	0.758	2.94	273
300	12.302	35.114	2.82	126.0	47.0	12.262	26.627	35.345	43.681	0.797	2.89	299
350	11.414	35.104	2.49	111.2	40.7	11.369	26.789	35.542	43.911	0.867	2.83	349
400	10.530	35.018	2.63	117.5	42.1	10.482	26.883	35.673	44.078	0.931	2.04	399
450	10.306	35.017	2.50	111.6	39.8	10.252	26.922	35.722	44.136	0.994	1.76	449
500	10.308	35.093	1.74	77.5	27.7	10.248	26.982	35.781	44.194	1.054	1.86	499
600	9.791	35.133	1.36	60.6	21.4	9.721	27.104	35.924	44.357	1.167	1.99	599
700	9.175	35.148	1.07	47.6	16.6	9.096	27.219	36.066	44.524	1.271	1.72	699
800	8.547	35.133	1.00	44.8	15.4	8.460	27.308	36.184	44.668	1.367	1.60	799
900	7.881	35.079	1.02	45.6	15.4	7.786	27.368	36.275	44.788	1.457	1.52	899
1000	7.244	35.027	1.09	48.4	16.1	7.143	27.420	36.357	44.899	1.541	1.30	999
1200	6.063	34.967	1.35	60.4	19.6	5.951	27.533	36.527	45.123	1.696	1.28	1198
1400	5.258	34.918	1.72	76.7	24.4	5.134	27.595	36.630	45.264	1.834	1.32	1398
1600	4.173	34.862	2.26	100.7	31.2	4.042	27.672	36.763	45.450	1.959	1.44	1598
1800	3.205	34.806	2.71	120.8	36.5	3.068	27.724	36.866	45.601	2.066	1.06	1798
2000	2.772	34.785	2.98	133.3	39.8	2.623	27.748	36.914	45.672	2.164	0.76	1998
2500	2.115	34.755	3.39	151.2	44.4	1.932	27.780	36.985	45.779	2.390	0.49	2498
3000	1.844	34.742	3.67	163.8	47.8	1.619	27.794	37.016	45.826	2.608	0.49	2997
3500	1.587	34.729	3.96	176.3	51.1	1.318	27.805	37.045	45.871	2.821	0.44	3497
4000	1.473	34.724	4.11	183.5	53.0	1.155	27.813	37.061	45.896	3.030	0.22	3997
4500	1.391	34.719	4.26	190.2	54.8	1.019	27.818	37.075	45.917	3.241	-0.22	4497
5000	1.408	34.717	4.30	192.1	55.4	0.977	27.819	37.078	45.923	3.456	0.00	4997
5252	1.437	34.717	4.31	192.2	55.5	0.974	27.819	37.079	45.923	3.568	---	5248

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	8.543	35.132	1.00	44.6	15.3	8.456	27.308	36.184	44.668	798
1200	6.064	34.967	1.40	62.5	20.3	5.952	27.533	36.527	45.123	1198
1599	4.173	34.864	2.17	96.9	30.0	4.042	27.674	36.764	45.451	1597
1999	2.772	34.785	2.96	132.1	39.5	2.623	27.747	36.914	45.672	1997
2399	2.182	34.759	3.36	150.0	44.1	2.007	27.778	36.979	45.768	2397
2799	1.952	34.747	3.55	158.5	46.3	1.744	27.789	37.004	45.807	2796
3198	1.748	34.737	3.76	167.9	48.8	1.506	27.799	37.028	45.843	3195
3598	1.549	34.727	4.00	178.6	51.7	1.271	27.808	37.050	45.878	3595
4000	1.472	34.722	4.15	185.3	53.5	1.154	27.812	37.060	45.895	3997
4399	1.396	34.720	4.21	187.9	54.2	1.036	27.818	37.074	45.915	4396
4799	1.388	34.716	4.30	192.0	55.3	0.981	27.818	37.077	45.921	4795
5253	1.437	34.718	4.26	190.2	54.9	0.973	27.820	37.080	45.924	---

CDARWIN 19  
DATE: 12/31/86

STA: 46

TIME: 0354

LAT: 2° 23.3N

LON: 67° 42.5E

SONIC DEPTH: 4392 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.855	35.238	4.74	211.7	105.3	27.853	22.624	30.860	38.746	0.042	---	8
10	27.849	35.241	4.74	211.7	105.4	27.847	22.628	30.865	38.751	0.052	6.54	10
20	27.127	35.332	4.58	204.6	100.7	27.122	22.930	31.183	39.084	0.104	7.30	20
30	27.152	35.321	4.71	210.4	103.6	27.145	22.915	31.167	39.068	0.153	7.71	30
40	25.867	35.416	4.65	207.5	100.0	25.858	23.393	31.676	39.606	0.200	8.06	40
50	25.619	35.466	4.45	198.6	95.4	25.608	23.509	31.797	39.732	0.244	8.36	50
60	24.805	35.531	4.20	187.5	88.8	24.792	23.808	32.116	40.070	0.287	8.74	60
74	20.533	35.373	3.36	149.8	65.8	20.519	24.909	33.339	41.406	0.338	8.97	74
100	19.229	35.318	3.11	138.9	59.5	19.211	25.211	33.681	41.787	0.412	7.89	100
124	17.998	35.303	2.94	131.2	54.9	17.977	25.511	34.021	42.164	0.476	6.81	124
150	16.453	35.268	2.82	125.8	51.1	16.429	25.856	34.418	42.609	0.537	5.84	150
174	15.139	35.223	2.91	130.1	51.5	15.113	26.120	34.729	42.964	0.586	5.35	173
200	14.294	35.201	2.92	130.5	50.7	14.265	26.287	34.927	43.191	0.634	4.56	199
224	13.491	35.158	2.78	124.2	47.5	13.469	26.422	35.093	43.385	0.675	3.81	223
250	12.788	35.120	3.00	134.0	50.5	12.754	26.536	35.234	43.552	0.716	3.06	249
274	12.579	35.109	3.00	133.9	50.2	12.542	26.569	35.275	43.601	0.753	2.71	273
300	12.403	35.102	2.89	129.1	48.2	12.363	26.599	35.312	43.644	0.793	2.77	299
350	11.440	35.092	2.40	107.1	39.2	11.395	26.775	35.527	43.896	0.865	2.93	349
400	10.624	35.033	2.04	91.0	32.7	10.575	26.878	35.664	44.065	0.930	2.12	399
450	10.449	35.037	2.12	94.5	33.8	10.395	26.913	35.706	44.114	0.992	1.70	449
500	10.222	35.044	1.90	84.7	30.2	10.162	26.959	35.762	44.179	1.053	1.86	499
600	9.878	35.155	1.13	50.5	17.9	9.807	27.106	35.923	44.352	1.168	2.15	599
700	9.218	35.168	0.93	41.6	14.5	9.138	27.228	36.073	44.529	1.272	1.89	699
800	8.529	35.121	1.02	45.7	15.7	8.442	27.301	36.178	44.663	1.366	1.30	799
900	8.049	35.100	1.07	47.7	16.2	7.953	27.360	36.258	44.765	1.457	1.47	899
1000	7.613	35.096	1.13	50.3	16.9	7.509	27.422	36.341	44.866	1.543	1.20	998
1022	7.406	35.082	1.16	52.0	17.4	7.301	27.441	36.370	44.904	1.561	---	1020

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
14	27.839	35.257	4.79	213.8	106.4	27.836	22.644	30.880	38.766	14
39	25.933	35.403	4.74	211.6	102.1	25.924	23.363	31.644	39.572	39
54	25.410	35.488	4.40	196.4	94.0	25.398	23.590	31.883	39.823	54
89	19.347	35.322	2.81	125.4	53.8	19.331	25.183	33.650	41.752	88
129	17.614	35.300	2.59	115.6	48.0	17.592	25.603	34.125	42.280	129
189	14.463	35.205	2.85	127.2	49.6	14.435	26.254	34.887	43.145	189
249	12.783	35.121	2.93	130.8	49.3	12.749	26.538	35.235	43.554	248
334	11.702	35.099	2.48	110.7	40.7	11.659	26.731	35.472	43.831	333
424	10.485	35.019	2.22	99.1	35.5	10.434	26.892	35.684	44.091	423
649	9.616	35.185	0.98	43.8	15.4	9.541	27.175	36.002	44.442	648
1024	7.344	35.078	1.02	45.5	15.2	7.240	27.447	36.378	44.915	---
1200	6.120	34.969	1.24	55.4	18.0	6.007	27.528	36.519	45.112	---

CDARWIN 19  
DATE: 12/31/86

STA: 46

TIME: 0828

LAT: 2° 0.2N

LON: 57° 19' 5E

SONIC DEPTH: 4560 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	28.354	35.296	4.33	193.3	97.0	28.351	22.504	30.728	38.603	0.075	---	14
20	28.230	35.314	4.26	190.2	95.3	28.225	22.559	30.786	38.663	0.107	7.73	20
30	26.982	35.324	4.38	195.6	96.0	26.975	22.972	31.228	39.133	0.158	8.29	30
40	25.329	35.460	4.57	204.1	97.5	25.320	23.593	31.889	39.830	0.203	8.39	40
50	23.618	35.470	4.39	195.9	90.9	23.608	24.115	32.456	40.440	0.244	8.45	50
60	22.757	35.532	4.21	188.1	86.0	22.745	24.412	32.775	40.781	0.281	8.38	60
74	19.822	35.311	3.74	167.0	72.3	19.808	25.051	33.503	41.591	0.326	8.26	74
100	18.687	35.314	3.14	140.3	59.5	18.669	25.346	33.834	41.955	0.397	7.17	100
124	17.530	35.300	2.74	122.3	50.7	17.509	25.623	34.148	42.305	0.458	5.90	124
150	16.606	35.260	3.04	135.6	55.2	16.582	25.814	34.371	42.557	0.518	5.45	150
174	15.570	35.237	3.01	134.3	53.6	15.543	26.035	34.628	42.849	0.570	5.34	174
200	14.125	35.193	2.97	132.6	51.4	14.096	26.317	34.963	43.233	0.618	4.77	199
224	13.186	35.147	3.13	139.8	53.1	13.155	26.476	35.158	43.462	0.658	3.91	223
250	12.878	35.130	2.82	125.7	47.4	12.844	26.526	35.220	43.535	0.700	3.02	249
274	12.760	35.118	3.13	139.8	52.6	12.723	26.541	35.240	43.559	0.737	2.62	273
300	12.141	35.093	2.85	127.1	47.2	12.101	26.643	35.366	43.709	0.777	2.64	299
350	11.793	35.100	2.43	108.4	40.0	11.748	26.716	35.453	43.809	0.849	2.85	349
400	10.683	35.050	2.21	98.6	35.5	10.634	26.881	35.664	44.063	0.915	2.38	399
450	10.409	35.013	2.10	93.9	33.6	10.355	26.901	35.697	44.106	0.978	1.85	449
500	10.096	35.035	1.78	79.6	28.3	10.037	26.974	35.782	44.204	1.039	2.07	499
600	9.876	35.126	1.23	55.0	19.4	9.805	27.084	35.901	44.331	1.153	1.82	599
700	9.057	35.137	1.09	48.4	16.8	8.978	27.229	36.082	44.545	1.258	2.12	699
800	8.162	35.063	1.10	49.3	16.8	8.077	27.312	36.205	44.707	1.352	1.30	799
900	7.880	35.068	1.10	49.0	16.6	7.786	27.359	36.266	44.780	1.442	1.42	899
1000	7.658	35.091	1.02	45.7	15.4	7.554	27.411	36.328	44.852	1.528	1.63	999
1200	6.168	34.974	1.35	60.3	19.6	6.055	27.525	36.514	45.105	1.684	1.39	1198
1400	5.176	34.917	1.65	73.7	23.4	5.053	27.604	36.643	45.280	1.822	1.19	1398
1600	4.398	34.874	2.07	92.5	28.8	4.264	27.658	36.737	45.412	1.948	1.25	1598
1800	3.306	34.807	2.60	115.9	35.1	3.168	27.715	36.853	45.583	2.058	1.10	1798
2000	2.725	34.783	2.94	131.4	39.2	2.577	27.750	36.919	45.679	2.156	0.70	1998
2500	2.172	34.757	3.34	149.2	43.9	1.988	27.778	36.980	45.770	2.385	0.54	2498
3000	1.861	34.742	3.60	160.5	46.8	1.636	27.793	37.015	45.824	2.604	0.49	2997
3500	1.604	34.731	3.88	173.3	50.2	1.335	27.807	37.045	45.870	2.817	0.38	3497
4000	1.459	34.723	4.11	183.6	53.0	1.141	27.813	37.063	45.899	3.026	0.31	3997
4500	1.357	34.718	4.28	191.3	55.1	0.986	27.820	37.078	45.922	3.235	0.22	4497
4600	1.344	34.718	4.30	192.1	55.3	0.962	27.821	37.081	45.926	3.276	---	4597

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	28.331	35.297	5.09	227.2	114.0	28.328	22.513	30.737	38.612	14
223	13.185	35.146	2.86	127.7	48.5	13.154	26.476	35.158	43.461	223
425	10.462	35.017	2.18	97.3	34.9	10.411	26.895	35.688	44.095	424
649	9.197	35.054	---	---	---	9.124	27.141	35.988	44.447	648
999	7.659	35.093	1.03	46.0	15.5	7.555	27.413	36.330	44.853	997
1499	4.842	34.905	1.84	82.1	25.8	4.713	27.633	36.689	45.343	1497
1999	2.725	34.782	3.00	133.9	40.0	2.577	27.749	36.918	45.678	1997
2498	2.174	34.758	3.33	148.7	43.7	1.990	27.779	36.980	45.771	2496
2999	1.860	34.744	3.61	161.2	47.0	1.635	27.795	37.016	45.825	2996
3499	1.603	34.730	3.88	173.2	50.2	1.334	27.806	37.044	45.869	3496
3999	1.458	34.723	4.10	183.0	52.8	1.140	27.813	37.063	45.898	3996
4601	1.344	34.717	4.28	191.1	55.0	0.962	27.820	37.080	45.925	---

CDARWIN 19  
DATE: 12/31/86

STA: 47

TIME: 1510

LAT: 2° 19.6N

LON: 57° 0 1E

SONIC DEPTH: 4632 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	28.159	35.221	4.52	201.6	100.8	28.157	22.512	30.741	38.621	0.043	---	8
10	28.160	35.221	4.51	201.3	100.7	28.158	22.512	30.741	38.620	0.053	7.03	10
20	28.067	35.228	4.61	206.0	102.9	28.062	22.548	30.780	38.661	0.106	7.75	20
30	27.647	35.262	4.71	210.3	104.3	27.640	22.711	30.952	38.842	0.159	8.32	30
40	26.504	35.343	4.62	206.4	100.5	26.495	23.139	31.406	39.322	0.208	8.71	40
50	26.002	35.440	4.70	210.0	101.5	25.991	23.370	31.649	39.575	0.255	9.10	50
60	23.661	35.495	4.36	194.4	90.3	23.648	24.122	32.461	40.444	0.296	9.40	60
74	20.698	35.387	3.73	166.4	73.2	20.684	24.876	33.301	41.363	0.344	9.47	74
100	18.877	35.314	3.26	145.6	61.9	18.859	25.299	33.780	41.896	0.417	8.23	100
124	16.579	35.264	2.93	130.6	53.2	16.559	25.822	34.380	42.567	0.477	6.80	124
150	15.916	35.254	2.85	127.4	51.2	15.892	25.969	34.549	42.758	0.533	5.49	150
174	14.618	35.211	2.99	133.4	52.2	14.592	26.224	34.852	43.104	0.580	4.89	173
200	13.998	35.202	2.63	117.5	45.4	13.969	26.351	35.001	43.275	0.626	4.02	199
224	13.267	35.153	2.94	131.1	49.9	13.236	26.464	35.143	43.444	0.666	3.45	223
250	12.895	35.122	3.16	141.3	53.3	12.861	26.516	35.210	43.524	0.708	2.87	249
274	12.493	35.101	3.03	135.3	50.6	12.456	26.580	35.289	43.619	0.745	2.57	273
300	12.307	35.103	3.02	134.7	50.2	12.267	26.618	35.335	43.671	0.784	2.50	299
350	11.929	35.124	2.16	96.3	35.6	11.883	26.709	35.440	43.790	0.857	3.09	349
400	10.412	35.023	2.11	94.3	33.7	10.364	26.908	35.703	44.112	0.923	2.60	399
450	10.227	35.024	1.98	88.2	31.4	10.173	26.942	35.745	44.161	0.984	1.61	449
500	10.144	35.058	1.81	80.6	28.7	10.085	26.983	35.790	44.210	1.043	1.70	499
600	9.931	35.132	1.18	52.9	18.7	9.860	27.080	35.894	44.322	1.158	1.76	599
700	9.367	35.190	0.89	39.6	13.9	9.287	27.220	36.059	44.509	1.264	2.03	699
800	8.658	35.142	0.93	41.3	14.2	8.570	27.298	36.169	44.649	1.360	1.55	799
900	8.083	35.104	0.98	43.9	14.9	7.987	27.358	36.255	44.760	1.451	1.59	899
1000	7.675	35.114	0.99	44.4	14.9	7.571	27.427	36.343	44.865	1.536	1.70	999
1192	6.104	34.971	1.41	63.0	20.4	5.992	27.531	36.523	45.117	1.682	---	1190

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	28.148	35.222	4.84	216.1	108.1	28.145	22.516	30.746	38.626	14
54	25.355	35.497	4.57	204.0	97.5	25.343	23.614	31.909	39.849	53
89	19.030	35.303	3.04	135.7	57.9	19.014	25.250	33.727	41.839	89
139	16.190	35.257	2.69	120.1	48.5	16.168	25.908	34.479	42.679	138
174	14.598	35.211	2.84	126.8	49.6	14.572	26.229	34.857	43.110	174
279	12.431	35.098	3.12	139.3	52.1	12.394	26.590	35.302	43.633	278
309	12.332	35.129	2.58	115.2	43.0	12.291	26.634	35.349	43.684	308
400	10.412	35.024	2.16	96.4	34.5	10.364	26.908	35.703	44.112	399
725	9.219	35.182	0.89	39.7	13.9	9.136	27.239	36.084	44.540	724
900	8.085	35.105	0.97	43.3	14.7	7.989	27.358	36.255	44.760	898
999	7.677	35.116	0.98	43.8	14.7	7.573	27.429	36.344	44.867	997
1198	6.088	34.969	1.41	62.9	20.4	5.976	27.531	36.524	45.119	---

CDARWIN 19  
DATE: 1/1/87

STA: 48

LAT: 3° 0.5N  
TIME: 0106

LON: 56° 14.2E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.605	35.222	4.86	216.7	107.4	27.603	22.693	30.935	38.827	0.041	---	8
10	27.605	35.221	4.86	217.1	107.6	27.603	22.692	30.934	38.826	0.052	5.90	10
20	27.592	35.227	4.91	219.0	108.5	27.587	22.702	30.944	38.836	0.103	6.80	20
30	27.518	35.247	4.97	222.1	109.9	27.511	22.742	30.986	38.880	0.154	7.60	30
40	27.257	35.302	5.08	226.7	111.8	27.248	22.868	31.118	39.016	0.205	8.30	40
50	26.615	35.400	4.95	220.9	107.8	26.604	23.147	31.412	39.324	0.254	8.91	50
60	25.563	35.518	4.57	204.1	97.9	25.550	23.566	31.855	39.791	0.299	9.44	60
74	22.400	35.444	3.89	173.5	78.8	22.385	24.448	32.823	40.839	0.356	9.96	74
100	18.336	35.313	3.36	149.8	63.1	18.319	25.434	33.933	42.065	0.432	9.03	100
124	16.661	35.271	3.20	142.8	58.2	16.641	25.808	34.363	42.548	0.490	7.43	124
150	15.570	35.238	3.01	134.5	53.6	15.547	26.035	34.628	42.848	0.544	5.78	149
174	14.537	35.204	2.97	132.5	51.8	14.511	26.236	34.867	43.122	0.591	5.13	173
200	13.433	35.196	2.06	92.1	35.2	13.405	26.463	35.135	43.429	0.635	4.37	199
224	12.553	35.134	2.26	100.7	37.7	12.523	26.592	35.298	43.625	0.672	3.61	223
250	12.075	35.078	2.55	113.8	42.2	12.042	26.642	35.368	43.713	0.710	2.72	249
274	11.875	35.068	2.43	108.4	40.0	11.839	26.673	35.407	43.760	0.745	2.25	273
300	11.640	35.047	2.62	117.0	43.0	11.601	26.702	35.446	43.807	0.782	2.14	299
350	11.184	35.047	2.56	114.2	41.6	11.140	26.787	35.550	43.929	0.850	2.07	349
400	10.804	35.032	2.76	123.1	44.4	10.755	26.845	35.624	44.018	0.916	1.93	399
450	10.712	35.090	1.57	70.2	25.3	10.657	26.908	35.690	44.087	0.980	1.84	449
500	10.387	35.060	1.84	82.1	29.4	10.327	26.943	35.739	44.149	1.042	1.76	499
600	10.086	35.134	1.16	51.9	18.4	10.014	27.055	35.863	44.284	1.159	1.94	599
700	9.429	35.168	0.99	44.0	15.4	9.348	27.193	36.029	44.477	1.267	1.95	699
800	8.870	35.169	0.88	39.5	13.7	8.781	27.286	36.147	44.618	1.366	1.77	799
900	8.419	35.177	0.88	39.3	13.5	8.321	27.364	36.245	44.735	1.457	1.59	899
1000	7.838	35.152	0.91	40.6	13.7	7.733	27.434	36.341	44.856	1.542	1.49	998
1198	6.702	35.056	1.08	48.2	15.9	6.584	27.520	36.483	45.049	1.697	---	1196

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
55	26.082	35.500	4.81	214.7	103.9	26.070	23.391	31.667	39.591	55
99	18.278	35.276	2.94	131.3	55.2	18.261	25.420	33.921	42.055	99
199	13.429	35.203	2.52	112.5	43.0	13.401	26.469	35.141	43.435	199
396	10.595	35.034	2.55	113.8	40.9	10.547	26.884	35.671	44.073	396
461	10.338	35.021	2.31	103.1	36.8	10.283	26.920	35.718	44.131	460
479	10.361	35.042	2.09	93.3	33.3	10.303	26.933	35.730	44.141	478
718	9.342	35.165	0.99	44.2	15.5	9.260	27.206	36.045	44.497	717
800	8.870	35.170	0.84	37.5	13.0	8.781	27.287	36.148	44.618	798
899	8.421	35.178	0.84	37.5	12.8	8.323	27.365	36.246	44.735	898
988	7.884	35.150	0.91	40.6	13.7	7.780	27.425	36.331	44.844	986
1106	6.896	35.034	---	---	---	6.786	27.475	36.429	44.986	1104
1200	6.702	35.051	1.13	50.4	16.6	6.584	27.516	36.479	45.045	---

CDARWIN 19  
DATE: 1/1/87

STA: 49

TIME: 0642

LAT: 3° 20.9N

LON: 65° 50.8E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.427	35.306	4.99	222.9	110.2	27.426	22.814	31.059	38.954	0.030	---	6
10	27.410	35.310	5.13	228.8	113.1	27.408	22.823	31.069	38.964	0.050	6.34	10
20	27.397	35.343	4.98	222.5	110.0	27.392	22.852	31.098	38.994	0.101	7.39	20
30	27.112	35.371	4.99	222.7	109.6	27.105	22.966	31.219	39.120	0.150	8.22	30
40	26.430	35.473	5.04	225.2	109.6	26.421	23.260	31.528	39.444	0.198	8.87	40
50	25.621	35.541	4.92	219.7	105.6	25.610	23.565	31.852	39.786	0.243	9.40	50
60	24.412	35.499	4.61	206.0	96.9	24.399	23.901	32.221	40.185	0.285	9.84	60
74	21.276	35.398	3.82	170.4	75.8	21.262	24.727	33.134	41.181	0.337	10.34	74
100	16.144	35.264	3.65	162.9	65.7	16.128	25.923	34.495	42.698	0.402	8.91	100
124	14.845	35.264	2.80	124.9	49.1	14.826	26.215	34.833	43.077	0.448	6.75	124
150	14.276	35.265	2.54	113.4	44.1	14.254	26.339	34.978	43.242	0.494	4.43	150
174	13.763	35.239	2.56	114.4	44.0	13.738	26.427	35.086	43.368	0.535	3.56	173
200	13.654	35.302	1.98	88.3	33.9	13.625	26.499	35.161	43.446	0.577	3.36	199
224	13.119	35.300	1.64	73.3	27.8	13.088	26.608	35.291	43.595	0.614	3.33	223
250	12.298	35.218	1.93	86.3	32.2	12.265	26.708	35.424	43.758	0.651	2.90	249
274	11.650	35.105	2.42	108.1	39.7	11.615	26.744	35.487	43.847	0.684	2.46	273
300	11.252	35.046	2.61	116.5	42.5	11.214	26.772	35.532	43.909	0.719	1.98	299
350	10.999	35.055	2.86	127.6	46.2	10.956	26.827	35.597	43.983	0.785	1.67	349
400	10.501	34.972	3.05	136.1	48.8	10.453	26.852	35.644	44.051	0.850	1.49	399
450	11.088	35.166	1.68	74.8	27.2	11.032	26.900	35.665	44.047	0.913	1.69	449
500	10.255	35.032	2.38	106.3	37.9	10.195	26.944	35.746	44.162	0.975	1.81	499
600	9.998	35.121	1.33	69.5	21.1	9.927	27.060	35.872	44.297	1.092	1.78	599
700	9.619	35.168	1.06	47.4	16.7	9.537	27.162	35.990	44.430	1.202	2.01	699
800	8.859	35.165	0.90	40.4	14.0	8.770	27.285	36.146	44.617	1.302	1.81	799
900	8.311	35.184	0.86	38.2	13.0	8.214	27.386	36.272	44.766	1.393	1.64	899
1000	7.770	35.137	0.93	41.5	14.0	7.665	27.432	36.343	44.861	1.478	1.42	999
1200	6.394	35.034	1.21	54.1	17.7	6.279	27.544	36.521	45.101	1.634	1.52	1198
1400	5.265	34.945	1.63	72.5	23.1	5.141	27.616	36.650	45.283	1.771	1.36	1398
1600	4.234	34.875	2.12	94.8	29.4	4.102	27.676	36.764	45.447	1.893	1.19	1598
1800	3.532	34.832	2.47	110.5	33.6	3.391	27.714	36.839	45.558	2.003	1.01	1798
2000	2.885	34.799	2.84	126.7	38.0	2.735	27.748	36.909	45.661	2.104	0.99	1998
2500	2.090	34.758	3.36	150.0	44.0	1.908	27.785	36.991	45.786	2.329	0.54	2498
3000	1.822	34.744	3.65	162.9	47.5	1.598	27.798	37.021	45.832	2.544	0.44	2997
3500	1.597	34.732	3.90	173.9	50.4	1.328	27.808	37.046	45.872	2.756	0.38	3497
4000	1.462	34.725	4.12	183.8	53.1	1.144	27.815	37.064	45.899	2.964	0.31	3997
4500	1.332	34.718	4.33	193.1	55.6	0.962	27.822	37.081	45.926	3.172	0.22	4497
5000	1.350	34.716	4.38	195.3	56.2	0.921	27.823	37.085	45.932	3.382	-0.38	4997
5078	1.359	34.716	4.40	196.3	56.5	0.920	27.823	37.085	45.932	3.415	---	5075

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
799	9.030	35.162	0.89	39.7	13.8	8.940	27.255	36.109	44.573	797
990	7.968	35.159	0.90	40.2	13.6	7.862	27.420	36.322	44.831	997
1399	5.495	34.962	1.53	68.3	21.8	5.368	27.602	36.624	45.246	1397
1798	3.601	34.839	2.37	105.8	32.3	3.459	27.713	36.834	45.550	1796
2199	2.453	34.774	3.08	137.5	40.7	2.292	27.767	36.952	45.726	2197
2571	2.067	34.754	3.38	150.9	44.3	1.878	27.784	36.992	45.788	2569
2999	1.836	34.743	3.58	159.8	46.6	1.612	27.796	37.019	45.829	2996
3398	1.647	34.735	3.84	171.4	49.7	1.387	27.806	37.041	45.863	3395
3800	1.513	34.726	4.01	179.0	51.8	1.215	27.811	37.056	45.887	3797
4195	1.402	34.722	4.20	187.5	54.1	1.064	27.818	37.072	45.911	4192
4599	1.329	34.718	4.30	192.0	55.2	0.948	27.822	37.083	45.929	4596
5081	1.360	34.718	4.32	192.9	55.5	0.920	27.824	37.086	45.933	---

CDARWIN 19  
DATE: 1/1/87

STA: 60

LAT: 3° 38.0N  
TIME: 1312

LON: 55° 30.4E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	27.031	35.276	5.27	235.1	115.5	27.030	22.918	31.174	39.078	0.030	---	6
10	27.033	35.273	5.25	234.3	115.1	27.031	22.916	31.171	39.075	0.049	5.83	10
20	26.991	35.346	5.41	241.7	118.7	26.986	22.985	31.241	39.145	0.099	6.91	20
30	26.946	35.400	5.50	245.4	120.4	26.939	23.041	31.297	39.202	0.147	7.84	30
40	26.722	35.463	5.51	246.0	120.3	26.713	23.160	31.421	39.330	0.195	8.61	40
50	26.194	35.534	5.45	243.2	118.0	26.183	23.381	31.654	39.575	0.241	9.26	50
60	25.704	35.527	5.31	237.2	114.1	25.691	23.529	31.815	39.747	0.286	9.88	60
74	21.670	35.426	4.24	189.5	84.9	21.655	24.639	33.035	41.071	0.341	10.50	74
100	15.645	35.241	3.78	168.8	67.4	15.629	26.018	34.609	42.826	0.407	9.18	100
124	14.578	35.197	3.71	165.6	64.7	14.560	26.221	34.850	43.104	0.452	6.92	124
150	13.925	35.182	3.47	154.8	59.7	13.903	26.349	35.002	43.279	0.498	4.40	150
174	13.540	35.159	3.45	153.8	58.9	13.515	26.412	35.080	43.370	0.539	3.35	173
200	13.153	35.143	3.32	148.3	56.3	13.125	26.479	35.162	43.467	0.581	3.25	199
224	12.975	35.264	2.02	90.1	34.1	12.944	26.609	35.298	43.607	0.618	3.26	223
250	12.595	35.259	1.84	82.2	30.9	12.561	26.682	35.385	43.708	0.656	3.16	249
274	12.472	35.301	1.60	71.4	26.7	12.435	26.739	35.447	43.774	0.689	2.89	273
300	11.635	35.179	1.89	84.2	31.0	11.596	26.805	35.548	43.908	0.724	2.43	299
350	10.545	34.986	2.95	131.9	47.3	10.503	26.854	35.644	44.049	0.788	1.58	349
400	10.548	35.030	2.56	114.5	41.1	10.500	26.889	35.678	44.082	0.851	1.58	399
450	10.313	35.043	2.28	102.0	36.4	10.259	26.942	35.741	44.154	0.913	1.70	449
500	10.226	35.074	1.89	84.6	30.2	10.166	26.982	35.784	44.201	0.973	1.61	499
600	10.049	35.158	1.39	62.2	22.1	9.978	27.079	35.889	44.312	1.089	1.99	599
700	9.434	35.174	1.27	56.5	19.8	9.353	27.197	36.033	44.480	1.195	1.81	699
800	9.033	35.200	1.07	47.8	16.6	8.943	27.285	36.138	44.602	1.294	1.74	799
900	8.409	35.181	1.00	44.6	15.3	8.311	27.369	36.250	44.740	1.385	1.54	899
1000	7.981	35.162	1.03	46.0	15.6	7.875	27.420	36.322	44.830	1.471	1.47	999
1196	6.449	35.032	1.25	55.8	18.3	6.334	27.534	36.509	45.087	1.625	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
14	27.000	35.282	5.08	226.8	111.3	26.997	22.933	31.190	39.094	14
49	26.516	35.490	5.11	228.1	111.2	26.505	23.246	31.512	39.426	49
74	23.878	35.467	4.20	187.5	87.4	23.862	24.037	32.371	40.349	73
89	18.721	35.336	3.20	142.9	60.6	18.705	25.354	33.840	41.960	89
199	13.308	35.152	3.05	136.2	51.8	13.280	26.455	35.132	43.431	199
274	12.496	35.265	1.81	80.8	30.3	12.459	26.706	35.414	43.741	273
399	10.529	35.013	2.71	121.0	43.4	10.481	26.879	35.669	44.074	398
549	10.195	35.105	1.97	87.9	31.3	10.129	27.012	35.816	44.233	548
674	9.440	35.137	1.33	59.4	20.8	9.362	27.167	36.003	44.450	673
899	8.419	35.182	1.00	44.6	15.3	8.321	27.368	36.249	44.739	898
999	7.972	35.161	1.00	44.6	15.1	7.866	27.421	36.322	44.832	998
1200	6.417	35.031	1.31	58.5	19.1	6.302	27.538	36.514	45.093	---



CDARWIN 19  
DATE: 1/1/87

STA: 51

LAT: 3° 58.4N  
TIME: 2155

LON: 55° 7 3E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.780	35.431	5.17	230.8	113.0	26.779	23.115	31.375	39.283	0.028	---	6
10	26.783	35.431	5.06	225.9	110.6	26.781	23.114	31.374	39.282	0.047	6.07	10
20	26.782	35.433	5.02	224.0	109.6	26.777	23.117	31.377	39.285	0.095	6.95	20
30	26.756	35.440	5.01	223.7	109.5	26.749	23.132	31.392	39.301	0.142	7.79	30
40	26.537	35.422	5.03	224.5	107.6	26.528	23.500	31.791	39.728	0.189	8.47	40
50	23.959	35.427	4.73	211.2	98.5	23.949	23.981	32.313	40.289	0.230	8.82	50
60	23.238	35.431	4.43	198.0	91.2	23.226	24.197	32.548	40.542	0.269	9.14	60
74	21.447	35.414	3.90	174.1	77.7	21.433	24.692	33.094	41.136	0.319	9.61	74
100	16.282	35.260	3.58	159.9	64.7	16.266	25.887	34.455	42.651	0.385	8.40	100
124	15.493	35.285	2.82	126.0	50.2	15.474	26.087	34.682	42.904	0.433	6.48	124
150	14.214	35.185	3.38	150.9	58.6	14.192	26.291	34.933	43.200	0.482	4.61	150
174	13.943	35.178	3.31	147.9	57.1	13.918	26.342	34.995	43.272	0.524	3.76	174
200	13.839	35.304	1.89	84.3	32.5	13.810	26.463	35.118	43.396	0.567	3.48	199
224	13.317	35.281	1.78	79.6	30.3	13.286	26.554	35.229	43.526	0.606	3.33	223
250	12.916	35.267	1.80	80.2	30.3	12.882	26.624	35.315	43.627	0.645	3.25	249
274	12.546	35.286	1.51	67.4	25.3	12.509	26.713	35.418	43.743	0.679	3.07	273
300	11.932	35.231	1.71	76.4	28.3	11.893	26.790	35.520	43.868	0.714	2.75	299
350	11.773	35.296	1.14	51.1	18.8	11.728	26.871	35.607	43.961	0.779	1.88	349
400	11.602	35.287	1.22	54.2	19.9	11.550	26.898	35.641	44.001	0.842	1.66	399
450	10.992	35.183	1.30	57.9	21.0	10.936	26.931	35.700	44.085	0.903	1.85	449
500	10.631	35.194	1.60	71.6	25.8	10.570	27.004	35.788	44.187	0.963	1.86	499
600	9.476	35.031	1.51	67.6	23.7	9.407	27.077	35.912	44.359	1.076	1.46	599
700	9.574	35.185	1.00	44.5	15.7	9.493	27.183	36.012	44.454	1.184	1.84	699
800	9.026	35.177	0.99	44.0	15.3	8.936	27.268	36.122	44.586	1.283	1.61	799
900	8.546	35.179	0.88	39.1	13.4	8.447	27.347	36.222	44.707	1.377	1.66	899
1000	7.745	35.126	0.90	40.1	13.5	7.640	27.427	36.339	44.859	1.464	1.69	999
1196	6.487	35.032	1.13	50.7	16.6	6.371	27.530	36.503	45.079	1.618	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	26.779	35.437	5.03	224.6	109.9	26.776	23.121	31.380	39.288	14
49	20.044	35.427	4.21	187.9	81.8	20.035	25.080	33.523	41.604	48
99	15.960	35.265	2.83	126.3	50.8	15.944	25.965	34.544	42.751	99
149	14.179	35.192	2.91	129.9	50.4	14.157	26.303	34.947	43.215	148
298	11.948	35.203	1.74	77.7	28.8	11.909	26.765	35.494	43.842	298
399	11.591	35.287	1.12	50.0	18.4	11.540	26.900	35.643	44.004	398
474	10.278	35.069	1.98	88.4	31.5	10.221	26.968	35.769	44.183	473
599	9.493	35.029	1.52	67.9	23.8	9.424	27.072	35.907	44.353	598
698	9.578	35.186	0.93	41.5	14.6	9.497	27.183	36.012	44.454	697
899	8.557	35.182	0.85	37.9	13.0	8.458	27.347	36.222	44.706	898
999	7.717	35.126	0.88	39.3	13.2	7.613	27.431	36.344	44.865	997
1200	6.403	35.026	1.20	53.6	17.5	6.288	27.536	36.513	45.093	---

CDARWIN 19  
DATE: 1/2/87

STA: 52

LAT: 4° 37.3N  
TIME: 0428

LON: 54° 22.0E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	27.058	35.113	4.42	197.5	96.9	27.057	22.787	31.044	38.949	0.030	---	6
10	27.059	35.114	4.37	195.3	95.9	27.057	22.788	31.044	38.949	0.051	5.73	10
20	27.065	35.117	4.39	196.2	96.3	27.060	22.789	31.045	38.950	0.101	6.30	20
30	27.220	35.318	4.18	186.5	91.9	27.213	22.891	31.142	39.041	0.151	6.92	30
40	27.022	35.785	4.39	195.9	96.5	27.013	23.307	31.558	39.457	0.200	7.51	40
50	25.165	35.636	4.35	194.2	92.6	25.154	23.776	32.074	40.018	0.244	7.84	50
60	23.380	35.426	4.03	179.9	83.1	23.368	24.151	32.499	40.490	0.283	8.07	60
74	23.485	35.626	3.82	170.7	79.1	23.470	24.273	32.616	40.602	0.335	8.64	74
100	20.680	35.361	3.64	162.5	71.5	20.661	24.862	33.288	41.351	0.425	8.77	100
124	18.194	35.403	2.21	98.5	41.4	18.172	25.539	34.042	42.177	0.492	8.05	124
150	15.418	35.332	1.56	69.7	27.7	15.395	26.141	34.738	42.962	0.548	7.02	149
174	14.536	35.323	1.83	81.8	32.0	14.510	26.329	34.958	43.212	0.592	5.77	173
200	13.860	35.322	1.87	83.3	32.1	13.831	26.472	35.127	43.404	0.636	4.69	199
224	12.472	35.222	1.89	84.3	31.6	12.442	26.677	35.385	43.713	0.672	3.91	223
250	12.224	35.220	1.77	78.9	29.4	12.191	26.724	35.442	43.780	0.708	3.32	249
274	11.917	35.265	1.39	62.2	23.0	11.881	26.819	35.548	43.897	0.740	2.87	273
300	11.830	35.289	1.24	55.2	20.4	11.791	26.854	35.588	43.939	0.773	2.63	299
350	10.950	35.203	1.45	64.8	23.5	10.907	26.951	35.721	44.107	0.834	2.41	349
400	11.313	35.421	0.57	25.4	9.3	11.262	27.055	35.808	44.178	0.891	2.34	399
450	10.917	35.434	0.53	23.7	8.6	10.861	27.139	35.908	44.293	0.944	1.96	449
500	10.342	35.325	0.68	30.4	10.9	10.282	27.157	35.951	44.360	0.995	1.55	499
600	8.975	35.110	1.17	52.1	18.1	8.908	27.219	36.075	44.542	1.094	1.34	599
700	8.876	35.150	0.99	44.2	15.3	8.798	27.268	36.129	44.599	1.190	1.26	699
800	8.589	35.160	0.94	42.1	14.5	8.501	27.323	36.196	44.679	1.282	1.34	799
900	8.216	35.149	0.92	41.1	14.0	8.119	27.373	36.264	44.762	1.370	1.34	899
1000	7.725	35.124	0.98	43.8	14.7	7.620	27.428	36.341	44.862	1.456	1.46	999
1200	6.591	35.043	1.16	52.0	17.1	6.474	27.525	36.493	45.064	1.612	1.28	1198
1400	5.366	34.942	1.63	72.7	23.2	5.241	27.601	36.630	45.259	1.752	1.14	1398
1600	4.376	34.883	2.09	93.2	29.0	4.242	27.668	36.748	45.425	1.877	1.17	1598
1800	3.624	34.831	2.51	112.1	34.2	3.481	27.704	36.824	45.539	1.990	0.85	1798
2000	3.057	34.804	2.76	123.4	37.1	2.904	27.737	36.889	45.632	2.095	1.06	1998
2500	2.196	34.765	3.27	146.1	43.0	2.012	27.782	36.983	45.772	2.328	0.49	2498
3000	1.875	34.747	3.53	157.5	46.0	1.650	27.796	37.017	45.825	2.546	0.49	2997
3500	1.663	34.736	3.81	169.9	49.3	1.392	27.806	37.041	45.863	2.761	0.31	3497
4000	1.483	34.726	4.06	181.4	52.4	1.164	27.814	37.062	45.896	2.973	0.44	3997
4500	1.355	34.719	4.29	191.6	55.2	0.984	27.821	37.079	45.923	3.182	0.31	4497
5000	1.362	34.716	4.38	195.6	56.3	0.932	27.822	37.083	45.930	3.393	0.00	4997
5232	1.375	34.716	4.38	195.5	56.3	0.916	27.823	37.085	45.933	3.494	---	5229

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
797	8.678	35.163	0.91	40.6	14.0	8.590	27.312	36.181	44.659	795
1199	6.667	35.052	1.13	50.4	16.6	6.550	27.522	36.486	45.054	1197
1599	4.458	34.886	1.98	90.1	27.0	4.323	27.661	36.737	45.410	1597
1998	3.097	34.803	2.69	120.1	36.2	2.944	27.733	36.882	45.624	1996
2400	2.307	34.768	3.17	141.5	41.8	2.130	27.775	36.969	45.752	2397
2795	2.004	34.755	3.37	150.4	44.1	1.796	27.791	37.004	45.804	2792
3200	1.786	34.741	3.63	162.1	47.2	1.543	27.799	37.026	45.840	3197
3599	1.613	34.731	3.82	170.5	49.4	1.333	27.806	37.045	45.870	3596
4000	1.474	34.724	4.04	180.4	52.1	1.156	27.813	37.062	45.896	3997
4399	1.366	34.719	4.22	188.4	54.3	1.006	27.819	37.076	45.919	4396
4800	1.346	34.718	4.32	192.9	55.5	0.941	27.823	37.084	45.930	4797
5232	1.375	34.716	4.31	192.4	55.4	0.916	27.823	37.085	45.933	---

CDARWIN 19  
DATE: 1/2/87

STA: 53

TIME: 1323

LAT: 4° 58.6N

LON: 53° 59 OE

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	27.194	35.487	5.39	240.6	118.6	27.193	23.025	31.274	39.172	0.029	---	6
10	27.203	35.488	5.19	231.6	114.2	27.201	23.023	31.272	39.170	0.048	5.86	10
20	27.067	35.579	5.38	240.4	118.3	27.062	23.136	31.387	39.287	0.096	6.50	20
30	26.956	35.818	5.61	246.2	121.1	26.948	23.353	31.604	39.505	0.143	7.04	30
40	26.747	35.968	5.55	247.8	121.6	26.738	23.533	31.788	39.691	0.187	7.46	40
50	25.264	35.914	5.12	228.6	109.4	25.253	23.957	32.249	40.188	0.229	7.89	50
60	23.196	35.624	4.61	205.8	94.9	23.184	24.355	32.706	40.699	0.266	8.13	60
74	21.856	35.439	4.30	191.8	86.2	21.841	24.597	32.987	41.018	0.315	8.50	74
100	19.363	35.404	3.36	150.2	64.5	19.345	25.243	33.708	41.808	0.394	8.10	100
124	17.175	35.382	2.25	100.4	41.4	17.154	25.772	34.308	42.475	0.455	7.14	124
150	15.822	35.327	1.75	78.3	31.4	15.798	26.046	34.629	42.840	0.510	6.11	150
174	14.543	35.265	2.16	96.7	37.8	14.517	26.282	34.912	43.167	0.555	5.10	173
200	13.670	35.246	2.14	95.5	36.7	13.641	26.453	35.116	43.401	0.599	4.30	199
224	12.991	35.222	2.10	93.7	35.4	12.960	26.573	35.262	43.571	0.637	3.81	223
250	12.605	35.207	2.10	93.6	35.1	12.571	26.639	35.343	43.667	0.676	3.61	249
274	11.729	35.113	2.36	105.4	38.8	11.694	26.736	35.475	43.833	0.710	3.49	273
300	11.582	35.258	1.76	78.5	28.8	11.544	26.877	35.620	43.981	0.743	3.28	299
350	11.118	35.280	1.43	63.8	23.2	11.074	26.980	35.743	44.121	0.804	2.77	349
400	11.049	35.421	0.74	33.1	12.0	10.999	27.104	35.867	44.247	0.859	2.35	399
450	10.550	35.377	0.74	33.0	11.9	10.495	27.160	35.945	44.345	0.910	1.90	449
500	10.032	35.322	0.77	34.6	12.3	9.973	27.209	36.016	44.437	0.959	1.55	499
600	9.184	35.195	1.00	44.8	15.6	9.116	27.253	36.098	44.555	1.055	1.35	599
700	8.844	35.175	1.00	44.5	15.4	8.766	27.293	36.155	44.626	1.147	1.10	699
800	8.272	35.109	1.06	47.3	16.2	8.186	27.331	36.219	44.716	1.238	1.20	799
900	8.239	35.178	0.92	41.1	14.0	8.142	27.392	36.281	44.779	1.325	1.34	899
1000	7.740	35.123	0.99	44.2	14.9	7.635	27.425	36.338	44.857	1.410	1.32	999
1196	6.486	35.010	1.23	55.1	18.0	6.370	27.513	36.486	45.062	1.565	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	27.091	35.513	4.94	220.5	108.6	27.088	23.078	31.330	39.230	14
39	26.921	35.804	4.97	221.9	109.1	26.912	23.354	31.606	39.507	39
74	22.293	35.519	3.38	150.9	68.4	22.278	24.535	32.912	40.930	74
149	16.184	35.360	1.46	65.2	26.3	16.160	25.989	34.559	42.758	149
249	12.750	35.213	1.81	80.8	30.4	12.716	26.615	35.313	43.632	248
311	11.659	35.279	1.28	57.1	21.0	11.619	26.879	35.619	43.977	310
329	10.868	35.180	1.64	73.2	26.5	10.827	26.948	35.721	44.110	328
424	10.933	35.426	0.67	29.9	10.9	10.880	27.130	35.898	44.282	423
599	9.229	35.198	0.89	39.7	13.9	9.161	27.247	36.091	44.546	598
740	8.488	35.111	1.05	46.9	16.1	8.408	27.299	36.177	44.664	739
999	7.749	35.125	1.00	44.6	15.1	7.644	27.425	36.338	44.857	997
1199	6.462	35.012	1.23	54.9	18.0	6.346	27.517	36.492	45.069	---

CDARWIN 19  
DATE: 1/2/87

STA: 54

LAT: 5° 18.8N  
TIME: 1732

LON: 53° 35.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.559	36.022	5.40	241.2	118.0	26.558	23.631	31.890	39.797	0.026	---	6
10	26.563	36.022	5.46	243.8	119.3	26.561	23.630	31.889	39.796	0.043	2.80	10
20	26.565	36.023	5.50	245.4	120.1	26.561	23.631	31.889	39.796	0.085	3.84	20
30	26.556	36.032	5.45	243.4	119.1	26.549	23.641	31.900	39.807	0.128	4.70	30
40	26.535	36.043	5.34	238.3	116.6	26.526	23.657	31.916	39.824	0.170	5.55	40
50	26.595	36.113	5.02	224.1	109.8	26.584	23.692	31.949	39.854	0.213	6.36	50
60	26.555	36.136	5.08	226.7	111.0	26.541	23.722	31.980	39.886	0.255	7.21	60
74	25.677	36.082	4.81	214.7	103.6	25.661	23.958	32.238	40.165	0.312	8.37	74
100	20.442	35.455	3.51	156.5	68.6	20.423	24.998	33.429	41.499	0.401	8.98	100
124	17.608	35.370	2.47	110.2	45.8	17.587	25.658	34.180	42.334	0.464	8.33	124
150	14.788	35.276	1.81	80.8	31.8	14.766	26.237	34.857	43.103	0.517	6.84	150
174	13.750	35.225	2.57	114.6	44.0	13.726	26.419	35.079	43.361	0.558	5.39	173
200	12.926	35.217	2.01	89.6	33.9	12.899	26.582	35.273	43.585	0.599	4.17	199
224	12.361	35.200	1.95	87.1	32.5	12.331	26.681	35.394	43.726	0.634	3.48	223
250	11.976	35.185	1.85	82.8	30.7	11.943	26.744	35.473	43.820	0.670	3.12	249
274	11.834	35.240	1.46	65.1	24.0	11.798	26.815	35.548	43.900	0.702	2.90	273
300	11.813	35.339	1.07	47.9	17.7	11.774	26.896	35.629	43.981	0.735	2.75	299
350	11.556	35.381	0.82	36.7	13.5	11.511	26.978	35.722	44.082	0.794	2.50	349
400	11.002	35.400	0.66	29.6	10.8	10.952	27.097	35.862	44.244	0.849	2.33	399
450	10.627	35.389	0.70	31.4	11.3	10.572	27.157	35.938	44.334	0.901	2.14	449
500	10.256	35.394	0.63	28.0	10.0	10.196	27.226	36.023	44.434	0.950	1.80	499
600	9.050	35.205	0.85	38.1	13.2	8.983	27.282	36.133	44.595	1.044	1.22	599
700	8.303	35.070	1.10	49.0	16.7	8.228	27.295	36.181	44.676	1.134	0.66	699
800	8.341	35.112	1.03	46.0	15.7	8.255	27.324	36.208	44.702	1.225	1.22	799
900	8.352	35.197	0.86	38.2	13.1	8.254	27.390	36.274	44.766	1.313	1.59	899
1000	7.635	35.137	0.94	41.9	14.1	7.531	27.451	36.368	44.892	1.396	1.39	999
1196	6.372	35.012	1.24	55.4	18.1	6.257	27.529	36.508	45.089	1.547	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	26.545	36.017	5.13	229.0	112.0	26.542	23.632	31.891	39.799	14
39	26.538	36.048	4.97	221.9	108.6	26.529	23.660	31.919	39.826	39
79	26.287	36.142	4.68	208.9	101.8	26.269	23.813	32.077	39.989	78
149	16.609	35.373	1.63	72.8	29.7	16.585	25.900	34.455	42.640	149
250	12.178	35.199	1.63	72.8	27.1	12.145	26.716	35.437	43.776	249
399	10.958	35.387	0.68	30.4	11.0	10.908	27.094	35.862	44.245	398
499	10.207	35.393	0.58	25.9	9.2	10.147	27.234	36.033	44.446	498
599	9.358	35.268	0.77	34.4	12.0	9.290	27.281	36.118	44.567	598
699	8.304	35.072	0.77	34.4	11.7	8.229	27.296	36.183	44.678	697
899	8.383	35.205	0.82	36.6	12.5	8.285	27.392	36.274	44.765	898
1049	7.144	35.073	1.07	47.8	15.9	7.038	27.471	36.412	44.958	1048
1200	6.344	35.011	1.27	56.7	18.5	6.229	27.532	36.512	45.095	---

CDARWIN 19  
DATE: 1/ 2/87

STA: 55

LAT: 5° 33.7N  
TIME: 2135

LON: 53° 15 1E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.322	35.979	3.75	167.4	81.6	26.321	23.674	31.939	39.851	0.025	---	6
10	26.309	35.971	3.76	167.8	81.8	26.307	23.672	31.937	39.851	0.042	3.16	10
20	26.498	36.160	3.69	165.0	80.7	26.494	23.755	32.014	39.921	0.084	3.97	20
30	26.466	36.174	3.68	164.2	80.3	26.459	23.777	32.037	39.944	0.125	4.63	30
40	26.463	36.178	3.68	164.3	80.3	26.454	23.782	32.041	39.949	0.167	5.34	40
50	26.460	36.181	3.71	165.6	81.0	26.449	23.786	32.045	39.953	0.208	6.03	50
60	26.434	36.178	3.67	163.7	80.0	26.420	23.792	32.053	39.961	0.249	6.80	60
74	24.148	35.842	3.19	142.3	66.8	24.132	24.241	32.564	40.530	0.305	7.82	74
100	20.632	35.493	2.47	110.4	48.6	20.613	24.975	33.401	41.464	0.391	8.37	100
124	18.306	35.393	1.82	81.3	34.2	18.284	25.504	34.003	42.135	0.457	7.99	124
150	16.015	35.329	1.58	70.3	28.3	15.991	26.004	34.580	42.785	0.515	6.91	150
174	14.123	35.251	1.97	88.0	34.1	14.098	26.361	35.006	43.276	0.559	5.70	173
200	13.346	35.252	1.73	77.4	29.5	13.318	26.524	35.199	43.495	0.601	4.50	199
224	12.988	35.255	1.65	73.6	27.8	12.957	26.600	35.288	43.597	0.638	3.66	223
250	12.066	35.172	1.93	86.0	31.9	12.033	26.717	35.442	43.786	0.675	3.15	249
274	11.714	35.128	2.04	90.8	33.5	11.679	26.750	35.490	43.848	0.708	2.89	273
300	11.325	35.131	2.07	92.4	33.7	11.287	26.825	35.581	43.953	0.743	2.78	299
350	11.033	35.204	1.27	56.7	20.6	10.989	26.937	35.704	44.087	0.805	2.46	349
400	10.663	35.214	1.17	52.3	18.8	10.614	27.013	35.795	44.192	0.863	2.20	399
450	10.743	35.345	0.74	32.9	11.9	10.688	27.102	35.879	44.271	0.918	2.16	449
500	10.762	35.440	0.52	23.4	8.5	10.700	27.173	35.949	44.339	0.970	2.33	499
600	9.825	35.384	0.56	24.9	8.8	9.754	27.295	36.110	44.539	1.064	1.28	599
700	8.565	35.151	0.97	43.4	14.9	8.489	27.318	36.192	44.675	1.154	1.01	699
800	8.377	35.149	0.98	43.8	15.0	8.291	27.347	36.230	44.721	1.243	1.08	799
900	7.916	35.138	0.98	43.5	14.7	7.821	27.409	36.313	44.825	1.329	1.59	899
1000	7.550	35.149	0.97	43.2	14.5	7.447	27.473	36.394	44.921	1.410	1.44	999
1200	6.362	35.017	1.32	58.8	19.2	6.247	27.534	36.513	45.095	1.561	1.22	1198
1400	5.462	34.958	1.58	70.5	22.5	5.336	27.602	36.626	45.250	1.700	1.14	1398
1600	4.774	34.935	1.83	81.7	25.7	4.635	27.665	36.725	45.382	1.827	1.21	1598
1800	3.577	34.832	2.53	112.9	34.4	3.435	27.709	36.832	45.549	1.941	1.08	1798
2000	3.002	34.803	2.82	125.8	37.8	2.850	27.741	36.895	45.641	2.043	0.82	1998
2500	2.182	34.764	3.29	146.8	43.2	1.998	27.783	36.984	45.774	2.276	0.54	2498
3000	1.930	34.748	3.49	155.8	45.5	1.703	27.793	37.011	45.816	2.495	0.31	2998
3500	1.695	34.736	3.76	168.0	48.8	1.424	27.804	37.038	45.858	2.713	0.31	3497
4000	1.512	34.726	4.04	180.2	52.1	1.192	27.812	37.059	45.892	2.927	0.31	3997
4500	1.386	34.718	4.24	189.1	54.5	1.014	27.818	37.075	45.917	3.138	-0.22	4497
5000	1.380	34.716	4.33	193.4	55.7	0.950	27.821	37.081	45.927	3.351	0.00	4997
5178	1.379	34.715	4.36	194.6	56.0	0.927	27.821	37.083	45.930	3.429	---	5175

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	8.439	35.150	0.94	42.0	14.4	8.352	27.338	36.218	44.707	798
1199	6.608	35.034	1.21	54.0	17.7	6.491	27.515	36.483	45.053	1197
1599	4.967	34.958	1.70	75.9	24.0	4.826	27.662	36.712	45.359	1597
2001	3.074	34.804	2.73	121.9	36.7	2.921	27.736	36.886	45.629	1999
2400	2.282	34.768	3.20	142.9	42.1	2.105	27.777	36.972	45.757	2398
2799	2.000	34.753	3.37	150.4	44.1	1.791	27.790	37.003	45.804	2796
3199	1.810	34.742	3.60	160.7	46.8	1.566	27.798	37.024	45.836	3197
3599	1.653	34.733	3.82	170.5	49.5	1.372	27.805	37.041	45.864	3597
3999	1.508	34.725	4.03	179.9	52.0	1.189	27.812	37.058	45.891	3996
4399	1.399	34.720	4.18	186.6	53.8	1.038	27.818	37.073	45.914	4396
4799	1.375	34.718	4.24	189.3	54.5	0.969	27.821	37.080	45.925	4796
5181	1.379	34.715	4.29	191.5	55.2	0.926	27.821	37.083	45.930	---

CDARWIN 19  
DATE: 1/3/87

STA: 56

TIME: 0545

LAT: 6° 56.2N

LON: 52° 52.7E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.337	36.165	5.15	230.0	112.2	26.336	23.809	32.071	39.982	0.025	---	6
10	26.340	36.165	5.13	229.2	111.8	26.338	23.808	32.071	39.981	0.041	3.38	10
20	26.325	36.165	5.07	226.5	110.5	26.321	23.814	32.077	39.987	0.082	4.18	20
30	26.323	36.165	5.04	225.1	109.8	26.316	23.815	32.078	39.989	0.123	4.80	30
40	26.322	36.165	5.15	229.8	112.1	26.313	23.816	32.079	39.990	0.164	5.43	40
50	26.318	36.164	5.14	229.4	111.9	26.307	23.817	32.080	39.992	0.205	6.10	50
60	26.039	36.117	5.16	230.4	111.8	26.026	23.870	32.141	40.059	0.245	6.79	60
74	23.405	35.725	4.07	181.8	84.2	23.390	24.372	32.715	40.702	0.298	7.51	74
100	20.397	35.465	3.36	149.8	65.6	20.378	25.017	33.450	41.520	0.380	7.72	100
124	18.529	35.477	2.55	113.7	48.1	18.507	25.512	34.002	42.127	0.446	7.32	124
150	16.936	35.336	2.30	102.8	42.2	16.911	25.795	34.340	42.515	0.508	6.50	150
174	14.616	35.250	2.89	129.2	50.6	14.590	26.255	34.882	43.135	0.556	5.74	173
200	14.129	35.260	2.21	98.7	38.3	14.100	26.368	35.013	43.282	0.602	4.90	199
224	13.333	35.246	2.20	98.4	37.5	13.302	26.523	35.198	43.495	0.641	4.25	223
250	12.219	35.139	2.77	123.7	46.0	12.186	26.662	35.381	43.720	0.680	3.69	249
274	11.814	35.146	2.62	116.7	43.1	11.778	26.745	35.481	43.834	0.714	3.28	273
300	11.604	35.175	1.98	88.6	32.5	11.566	26.808	35.552	43.913	0.749	2.85	299
350	10.974	35.158	1.69	75.4	27.3	10.931	26.911	35.681	44.067	0.812	2.30	349
400	10.679	35.179	1.61	72.0	25.9	10.630	26.982	35.764	44.161	0.872	2.11	399
450	10.731	35.268	1.24	55.4	20.0	10.676	27.043	35.822	44.216	0.929	2.23	449
500	10.886	35.424	0.66	29.4	10.7	10.824	27.138	35.908	44.295	0.983	2.33	499
600	9.167	35.221	0.91	40.8	14.2	9.099	27.276	36.122	44.579	1.081	1.78	599
700	8.269	35.091	1.14	50.9	17.4	8.194	27.316	36.204	44.700	1.170	1.05	699
800	8.169	35.113	1.10	49.1	16.7	8.084	27.350	36.243	44.743	1.259	1.34	799
900	8.489	35.254	0.80	35.5	12.2	8.390	27.414	36.290	44.776	1.344	1.14	899
1000	7.677	35.139	0.96	43.0	14.5	7.573	27.447	36.362	44.884	1.427	1.28	999
1196	7.072	35.144	1.01	45.0	15.0	6.951	27.540	36.484	45.032	1.579	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
10	26.342	36.167	---	---	---	26.340	23.809	32.072	39.982	10
29	26.308	36.166	4.73	211.2	103.0	26.302	23.820	32.084	39.995	29
79	21.852	35.583	3.19	142.4	64.1	21.836	24.708	33.097	41.126	79
159	16.086	35.279	2.38	106.3	42.8	16.061	25.949	34.524	42.727	158
258	12.357	35.160	2.29	102.2	38.2	12.323	26.652	35.366	43.699	258
400	10.728	35.154	1.53	68.3	24.6	10.679	26.954	35.734	44.129	399
524	10.806	35.429	0.57	25.4	9.2	10.741	27.157	35.931	44.320	523
649	8.487	35.118	1.06	47.3	16.2	8.417	27.303	36.181	44.667	648
749	8.190	35.088	1.12	50.0	17.0	8.110	27.327	36.218	44.718	748
875	8.598	35.266	0.77	34.4	11.8	8.501	27.406	36.278	44.759	873
1048	7.178	35.070	1.09	48.7	16.2	7.072	27.464	36.403	44.948	1047
1200	7.072	35.146	0.97	43.3	14.4	6.951	27.541	36.485	45.034	---

CDARWIN 19  
DATE: 1/3/87

STA: 57

TIME: 1042

LAT: 6° 15.8N

LON: 52° 30.8E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.897	36.209	4.40	196.5	96.8	26.896	23.664	31.913	39.810	0.025	---	6
10	26.886	36.208	4.40	196.5	96.8	26.884	23.668	31.916	39.814	0.042	3.11	10
20	26.786	36.204	4.37	195.1	96.0	26.781	23.697	31.948	39.848	0.084	3.79	20
30	26.751	36.204	4.33	193.4	95.0	26.744	23.709	31.961	39.862	0.126	4.54	30
40	26.744	36.206	4.41	197.1	96.8	26.735	23.714	31.966	39.867	0.168	5.21	40
50	26.718	36.209	4.38	195.3	95.9	26.707	23.725	31.978	39.880	0.210	5.91	50
60	26.566	36.183	4.18	186.4	91.3	26.552	23.754	32.011	39.917	0.252	6.62	60
74	23.776	35.652	3.72	166.1	77.3	23.760	24.208	32.542	40.520	0.307	7.49	74
100	21.493	35.805	2.33	104.1	46.6	21.474	24.978	33.374	41.410	0.398	8.04	100
124	18.947	35.436	2.51	112.0	47.7	18.925	25.375	33.853	41.965	0.464	7.64	124
150	17.081	35.392	1.64	73.3	30.2	17.056	25.803	34.342	42.512	0.528	6.80	149
174	15.197	35.298	1.75	78.3	31.0	15.170	26.164	34.770	43.002	0.577	5.87	173
200	14.059	35.238	2.28	101.9	39.4	14.030	26.365	35.013	43.285	0.625	5.70	199
224	13.336	35.224	2.14	95.8	36.5	13.305	26.506	35.181	43.478	0.664	4.12	223
250	12.797	35.183	2.53	112.8	42.5	12.763	26.583	35.279	43.596	0.704	3.48	249
274	12.615	35.255	1.70	76.0	28.6	12.578	26.675	35.378	43.701	0.739	3.03	273
300	12.190	35.231	1.62	72.3	26.9	12.150	26.740	35.460	43.799	0.776	2.84	299
350	11.660	35.232	1.34	59.8	22.0	11.615	26.843	35.584	43.943	0.842	2.37	349
400	10.875	35.125	1.82	81.3	29.4	10.825	26.905	35.680	44.070	0.905	2.12	399
450	11.237	35.325	1.02	45.6	16.6	11.180	26.997	35.754	44.128	0.965	2.22	449
500	10.531	35.260	0.95	42.3	15.2	10.470	27.073	35.861	44.263	1.022	2.09	499
600	10.051	35.265	0.94	42.2	15.0	9.980	27.163	35.971	44.392	1.129	1.69	599
700	9.666	35.311	0.72	32.0	11.3	9.584	27.266	36.090	44.526	1.229	1.81	699
800	9.411	35.358	0.61	27.1	9.5	9.318	27.347	36.182	44.628	1.322	1.57	799
900	8.772	35.315	0.69	30.9	10.7	8.671	27.418	36.282	44.755	1.409	1.67	899
1000	7.887	35.221	0.78	35.0	11.8	7.781	27.480	36.385	44.897	1.489	1.30	999
1200	6.565	35.098	1.08	48.2	15.8	6.448	27.572	36.540	45.112	1.640	1.52	1198
1400	5.084	34.975	1.57	70.3	22.2	4.961	27.660	36.703	45.344	1.769	1.26	1398
1600	3.975	34.876	2.14	95.7	29.5	3.846	27.704	36.805	45.500	1.884	1.14	1598
1800	3.168	34.820	2.61	116.5	35.1	3.031	27.739	36.883	45.619	1.986	0.93	1798
2000	2.711	34.793	2.90	129.6	38.6	2.563	27.759	36.929	45.689	2.082	0.70	1998
2500	2.112	34.760	3.35	150.0	44.1	1.929	27.785	36.990	45.784	2.305	0.58	2498
3000	1.858	34.748	3.56	158.8	46.3	1.633	27.798	37.019	45.828	2.522	0.38	2998
3500	1.633	34.734	3.85	171.7	49.8	1.363	27.806	37.043	45.867	2.735	0.31	3497
4000	1.494	34.726	4.06	181.4	52.4	1.175	27.813	37.061	45.894	2.947	0.22	3997
4500	1.393	34.720	4.22	188.6	54.4	1.021	27.819	37.075	45.917	3.157	0.22	4497
5000	1.376	34.717	4.28	190.9	55.0	0.946	27.821	37.082	45.928	3.371	-0.31	4997
5150	1.385	34.717	4.33	193.3	55.7	0.936	27.822	37.083	45.930	3.436	---	5147

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
799	9.450	35.358	0.59	26.3	9.2	9.357	27.340	36.174	44.618	797
1099	7.338	35.167	0.88	39.3	13.1	7.225	27.519	36.450	44.986	1097
1398	4.800	34.932	1.71	76.3	24.0	4.681	27.658	36.715	45.370	1397
1799	3.269	34.825	2.50	111.6	33.8	3.131	27.733	36.872	45.604	1797
2199	2.462	34.780	2.99	133.5	39.6	2.300	27.771	36.955	45.729	2197
2599	2.072	34.755	3.33	148.7	43.6	1.881	27.785	36.993	45.789	2597
2999	1.898	34.747	3.48	155.4	45.4	1.672	27.794	37.014	45.821	2997
3399	1.696	34.736	3.71	165.6	48.1	1.435	27.803	37.036	45.855	3396
3799	1.554	34.729	3.94	175.9	50.9	1.265	27.810	37.052	45.881	3796
4199	1.447	34.723	4.14	184.8	53.3	1.107	27.816	37.067	45.904	4196
4600	1.384	34.720	4.18	186.6	53.8	1.001	27.820	37.078	45.921	4596
5152	1.385	34.716	4.26	190.2	54.8	0.936	27.821	37.083	45.929	---

CDARWIN 19  
DATE: 1/3/87

STA: 58

LAT: 6° 37.4N  
TIME: 1923

LON: 52° 55E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	26.146	36.074	4.14	184.8	89.8	26.144	23.800	32.068	39.984	0.033	---	8
10	26.146	36.074	4.10	183.0	89.0	26.144	23.800	32.069	39.985	0.041	2.59	10
20	26.147	36.075	3.87	172.7	83.9	26.143	23.801	32.070	39.986	0.082	3.36	20
30	26.152	36.076	3.88	173.2	84.2	26.145	23.802	32.070	39.986	0.123	4.01	30
40	26.154	36.083	3.70	165.1	80.3	26.145	23.808	32.076	39.991	0.164	4.67	40
50	26.159	36.089	3.77	168.3	81.9	26.148	23.811	32.078	39.994	0.205	5.41	50
60	26.092	36.097	3.63	162.1	78.7	26.079	23.838	32.108	40.025	0.246	6.16	60
74	24.348	35.854	2.90	129.3	60.9	24.332	24.191	32.508	40.469	0.301	7.13	74
100	21.767	35.632	2.29	102.4	46.0	21.747	24.770	33.161	41.192	0.391	7.84	100
124	18.915	35.423	1.68	74.8	31.9	18.893	25.373	33.852	41.966	0.462	7.77	124
150	17.340	35.392	1.39	62.1	25.7	17.315	25.741	34.272	42.433	0.525	7.01	150
174	15.524	35.340	1.35	60.1	24.0	15.497	26.124	34.718	42.939	0.576	6.22	173
200	13.707	35.249	1.47	65.8	25.3	13.678	26.447	35.108	43.392	0.622	5.08	199
224	13.420	35.276	1.44	64.4	24.6	13.388	26.528	35.199	43.493	0.660	4.25	223
250	13.046	35.311	1.29	57.5	21.8	13.011	26.632	35.317	43.624	0.700	3.63	249
274	12.498	35.278	1.23	55.0	20.6	12.461	26.716	35.423	43.750	0.734	3.36	273
300	11.617	35.199	1.54	69.0	25.4	11.578	26.824	35.567	43.928	0.769	2.94	299
350	10.702	35.082	1.90	84.9	30.6	10.659	26.901	35.683	44.080	0.832	1.93	349
400	10.399	35.055	1.98	88.2	31.6	10.351	26.934	35.729	44.139	0.893	1.55	399
450	10.380	35.098	1.63	72.6	26.0	10.326	26.972	35.768	44.178	0.953	1.67	449
500	10.219	35.123	1.46	65.2	23.2	10.159	27.021	35.823	44.239	1.011	1.69	499
600	9.866	35.134	1.25	56.0	19.8	9.795	27.092	35.909	44.339	1.123	1.70	599
700	9.666	35.244	0.90	40.3	14.2	9.584	27.213	36.038	44.475	1.228	1.78	699
800	9.319	35.290	0.73	32.5	11.4	9.227	27.309	36.148	44.599	1.326	1.83	799
900	8.888	35.324	0.65	29.2	10.1	8.787	27.407	36.265	44.733	1.415	1.57	899
1000	8.259	35.268	0.72	32.1	11.0	8.150	27.462	36.349	44.845	1.499	1.59	999
1200	6.075	35.041	1.25	55.7	18.1	5.963	27.590	36.582	45.177	1.648	1.56	1198
1400	4.872	34.939	1.69	75.5	23.8	4.752	27.656	36.710	45.361	1.773	1.03	1398
1600	3.976	34.870	2.13	95.0	29.3	3.847	27.699	36.799	45.495	1.888	1.08	1598
1800	3.157	34.813	2.61	116.4	35.1	3.021	27.734	36.879	45.616	1.991	0.88	1798
2000	2.717	34.790	2.88	128.6	38.4	2.569	27.756	36.926	45.685	2.088	0.76	1998
2500	2.132	34.760	3.26	145.7	42.8	1.949	27.784	36.988	45.780	2.313	0.49	2498
3000	1.860	34.745	3.49	155.8	45.4	1.635	27.796	37.017	45.826	2.530	0.31	2998
3500	1.659	34.733	3.77	168.1	48.4	1.389	27.804	37.040	45.862	2.745	0.44	3497
4000	1.502	34.725	3.99	178.3	51.5	1.183	27.812	37.059	45.893	2.958	0.38	3997
4500	1.383	34.720	4.19	187.1	53.9	1.011	27.819	37.076	45.919	3.168	0.22	4497
4538	1.380	34.718	4.21	187.8	54.1	1.004	27.819	37.076	45.919	3.184	---	4535

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
799	9.326	35.289	0.73	32.6	11.4	9.234	27.307	36.146	44.597	798
1099	7.290	35.165	0.89	39.7	13.3	7.178	27.524	36.457	44.996	1097
1399	4.874	34.941	1.70	75.9	23.9	4.754	27.657	36.710	45.362	1397
1699	3.484	34.831	2.45	109.4	33.3	3.352	27.717	36.844	45.565	1697
1999	2.719	34.790	2.88	128.6	38.4	2.571	27.756	36.925	45.685	1997
2298	2.297	34.770	3.12	139.3	41.1	2.129	27.777	36.971	45.754	2296
2599	2.076	34.759	3.28	146.4	43.0	1.885	27.788	36.995	45.791	2597
2991	1.868	34.746	3.49	155.8	45.5	1.644	27.796	37.017	45.825	2983
3399	1.706	34.737	3.72	166.1	48.3	1.445	27.803	37.035	45.854	3397
3799	1.559	34.727	3.91	174.6	50.5	1.260	27.808	37.051	45.880	3796
4199	1.427	34.722	4.10	183.0	52.8	1.088	27.816	37.069	45.907	4196
4584	1.376	34.718	4.23	188.8	54.4	0.995	27.819	37.077	45.920	---



CDARWIN 19  
DATE: 1/4/87

STA: 59

TIME: 0104

LAT: 6° 45.5N

LON: 51° 58.4E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.262	36.168	5.16	230.6	112.3	26.261	23.835	32.099	40.011	0.024	---	6
10	26.264	36.171	5.13	229.1	111.7	26.262	23.837	32.101	40.013	0.041	2.15	10
20	26.269	36.172	5.14	229.3	111.8	26.264	23.837	32.101	40.013	0.081	2.84	20
30	26.272	36.173	5.08	226.7	110.5	26.265	23.837	32.101	40.013	0.122	3.55	30
40	26.275	36.176	5.10	227.8	111.1	26.266	23.839	32.103	40.015	0.163	4.17	40
50	26.278	36.182	5.06	226.1	110.2	26.267	23.843	32.107	40.019	0.203	4.83	50
60	26.276	36.190	5.08	226.7	110.5	26.263	23.851	32.115	40.027	0.244	5.55	60
74	24.295	35.719	4.56	203.7	95.8	24.279	24.104	32.424	40.389	0.300	6.59	74
100	21.792	35.554	3.72	166.1	74.7	21.772	24.704	33.095	41.126	0.393	7.51	100
124	20.105	35.473	3.24	144.5	62.9	20.082	25.102	33.544	41.622	0.468	7.75	124
150	17.779	35.363	2.35	104.9	43.7	17.753	25.612	34.129	42.277	0.536	7.39	149
174	16.022	35.347	1.90	85.0	34.3	15.994	26.016	34.593	42.797	0.590	6.72	173
200	14.755	35.497	1.25	55.9	22.0	14.725	26.417	35.036	43.280	0.637	5.64	199
224	13.972	35.485	1.11	49.6	19.2	13.940	26.575	35.223	43.495	0.675	4.60	223
250	13.838	35.513	0.95	42.5	16.4	13.802	26.626	35.279	43.555	0.714	3.66	249
274	12.011	35.195	1.76	78.8	29.2	11.975	26.746	35.473	43.819	0.748	3.16	273
300	11.606	35.170	1.87	83.5	30.7	11.568	26.803	35.547	43.909	0.782	2.84	299
350	11.229	35.211	1.44	64.3	23.4	11.185	26.907	35.665	44.041	0.846	2.31	349
400	10.657	35.158	1.49	66.7	24.0	10.608	26.969	35.752	44.150	0.905	1.76	399
450	10.358	35.141	1.60	71.2	25.5	10.304	27.010	35.806	44.216	0.963	1.52	449
500	10.313	35.173	1.41	62.9	22.5	10.253	27.043	35.841	44.253	1.020	1.63	499
600	10.578	35.370	0.67	29.9	10.8	10.504	27.154	35.938	44.337	1.130	1.81	599
700	9.899	35.310	0.81	35.9	12.7	9.816	27.226	36.040	44.467	1.232	1.60	699
800	8.819	35.172	0.92	40.9	14.1	8.730	27.296	36.159	44.632	1.328	1.42	799
900	8.446	35.171	0.97	43.3	14.8	8.348	27.355	36.235	44.724	1.420	1.62	899
1000	8.298	35.280	0.75	33.3	11.4	8.189	27.465	36.351	44.845	1.505	1.99	999
1196	5.829	35.029	1.35	60.2	19.4	5.719	27.612	36.616	45.221	1.647	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.280	36.182	4.70	209.8	102.3	26.275	23.841	32.105	40.017	24
49	26.281	36.182	4.69	209.4	102.1	26.270	23.843	32.106	40.018	49
99	21.645	35.553	3.06	136.5	61.2	21.626	24.744	33.139	41.174	99
149	17.345	35.369	1.70	75.9	31.4	17.320	25.722	34.252	42.415	148
249	13.836	35.509	0.91	40.6	15.7	13.800	26.623	35.276	43.552	248
274	12.017	35.207	1.63	72.8	27.0	11.981	26.754	35.481	43.826	273
450	10.239	35.099	1.45	64.7	23.1	10.185	26.998	35.799	44.215	449
599	10.644	35.397	0.64	28.6	10.3	10.620	27.154	35.933	44.327	598
724	9.658	35.292	0.73	32.6	11.5	9.573	27.253	36.078	44.514	723
874	8.287	35.112	1.06	47.3	16.2	8.193	27.333	36.221	44.717	873
949	8.882	35.329	0.65	29.0	10.1	8.775	27.412	36.271	44.740	947
1199	5.808	35.030	1.34	59.8	19.3	5.698	27.615	36.620	45.226	---

CDARWIN 19  
DATE: 1/4/87

STA: 60

TIME: 0406

LAT: 6° 55.9N

LON: 61° 45.7E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.179	36.138	4.41	196.9	95.8	26.178	23.839	32.105	40.020	0.024	---	6
10	26.180	36.139	4.46	199.2	97.0	26.178	23.839	32.106	40.021	0.041	1.07	10
20	26.183	36.139	4.26	190.2	92.6	26.179	23.839	32.106	40.020	0.081	1.83	20
30	26.185	36.139	4.27	190.8	92.8	26.178	23.839	32.106	40.020	0.122	2.52	30
40	26.181	36.138	4.37	194.9	94.8	26.172	23.840	32.107	40.022	0.163	3.25	40
50	26.185	36.139	4.47	199.5	97.1	26.174	23.841	32.107	40.022	0.203	3.91	50
60	26.177	36.135	4.39	195.9	95.3	26.163	23.841	32.108	40.023	0.244	4.62	60
74	26.142	36.125	4.36	194.6	94.6	26.125	23.845	32.113	40.029	0.301	5.76	74
100	23.208	35.628	3.62	161.5	74.5	23.187	24.358	32.708	40.701	0.401	7.32	100
124	21.006	35.467	3.17	141.7	62.8	20.982	24.856	33.271	41.324	0.482	7.91	124
150	18.526	35.392	2.35	104.9	44.4	18.500	25.449	33.941	42.067	0.556	7.84	149
174	16.150	35.316	2.16	96.3	38.9	16.122	25.964	34.536	42.736	0.612	7.14	173
200	14.368	35.279	1.82	81.4	31.7	14.339	26.332	34.968	43.228	0.662	6.09	199
224	13.652	35.329	1.57	70.1	26.9	13.620	26.522	35.184	43.468	0.702	4.98	223
250	12.708	35.262	1.72	76.8	28.9	12.674	26.661	35.360	43.680	0.741	4.00	249
274	12.374	35.294	1.54	68.9	25.8	12.337	26.753	35.464	43.795	0.774	3.19	273
300	12.238	35.341	1.37	61.3	22.9	12.198	26.816	35.533	43.868	0.809	2.52	299
350	12.709	35.509	0.81	36.1	13.6	12.661	26.856	35.552	43.868	0.874	1.66	349
400	12.451	35.498	0.78	34.8	13.1	12.397	26.899	35.606	43.932	0.937	1.94	399
450	12.051	35.500	0.69	30.8	11.4	11.991	26.980	35.702	44.043	0.998	2.00	449
500	11.964	35.540	0.53	23.8	8.8	11.898	27.029	35.754	44.098	1.057	1.69	499
550	9.992	35.176	1.27	56.9	20.2	9.921	27.103	35.915	44.340	1.170	1.73	599
700	9.440	35.163	1.17	52.1	18.3	9.359	27.188	36.023	44.471	1.275	1.47	699
800	9.333	35.224	0.88	39.1	13.7	9.241	27.255	36.095	44.546	1.376	1.58	799
900	9.328	35.369	0.60	26.6	9.3	9.224	27.371	36.210	44.660	1.470	2.03	899
1000	8.163	35.267	0.71	31.7	10.8	8.055	27.476	36.367	44.867	1.555	1.98	998
1200	6.196	35.070	1.17	52.4	17.0	6.083	27.598	36.584	45.172	1.699	1.49	1198
1400	4.634	34.933	1.81	80.6	25.2	4.516	27.677	36.743	45.405	1.821	1.03	1398
1600	3.789	34.854	2.33	104.0	31.9	3.662	27.705	36.815	45.520	1.931	1.17	1598
1800	3.110	34.818	2.63	117.5	35.4	2.974	27.743	36.890	45.629	2.032	0.82	1798
2000	2.613	34.790	2.92	130.2	38.7	2.467	27.765	36.940	45.705	2.126	0.73	1998
2500	2.097	34.760	3.34	149.1	43.8	1.914	27.786	36.992	45.786	2.346	0.31	2498
3000	1.827	34.747	3.56	159.0	46.3	1.603	27.800	37.023	45.834	2.561	0.44	2997
3500	1.630	34.735	3.85	171.7	49.8	1.360	27.808	37.045	45.868	2.773	0.38	3497
4000	1.506	34.728	4.04	180.4	52.1	1.187	27.814	37.061	45.894	2.984	0.44	3997
4500	1.378	34.721	4.22	188.6	54.3	1.007	27.821	37.078	45.921	3.193	0.00	4497
4584	1.370	34.720	4.24	189.2	54.5	0.989	27.821	37.079	45.923	3.228	---	4581

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
349	12.772	35.513	0.76	33.9	12.8	12.724	26.847	35.540	43.854	348
399	9.378	35.371	0.56	25.0	8.8	9.274	27.365	36.201	44.649	897
1399	4.668	34.934	1.73	77.2	24.2	4.550	27.674	36.738	45.399	1397
1599	3.527	34.848	2.33	104.0	31.7	3.395	27.726	36.851	45.569	1697
1999	2.636	34.788	2.90	129.5	38.5	2.489	27.761	36.935	45.700	1997
2299	2.242	34.764	3.21	143.3	42.2	2.075	27.777	36.973	45.759	2296
2599	2.066	34.755	3.35	149.6	43.9	1.875	27.785	36.993	45.790	2597
2999	1.833	34.745	3.52	157.1	45.8	1.609	27.798	37.021	45.831	2996
3399	1.659	34.735	3.79	169.2	49.1	1.399	27.805	37.040	45.861	3396
3798	1.549	34.730	3.94	175.9	50.9	1.250	27.811	37.055	45.884	3795
4199	1.433	34.723	4.11	183.5	52.9	1.094	27.816	37.069	45.907	4196
4586	1.370	34.720	4.23	188.8	54.4	0.989	27.821	37.079	45.923	---

CDARWIN 19  
DATE: 1/4/87

STA: 61

TIME: 0913

LAT: 6° 59.8N

LON: 51° 41.2E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.204	36.126	4.62	206.4	100.5	26.203	23.822	32.088	40.002	0.024	---	6
10	26.207	36.125	4.47	199.8	97.2	26.205	23.820	32.086	40.000	0.041	1.20	10
20	26.173	36.120	4.60	205.3	99.9	26.168	23.828	32.095	40.010	0.082	2.03	20
30	26.047	36.101	4.55	202.9	98.5	26.040	23.853	32.124	40.042	0.122	2.63	30
40	26.042	36.100	4.60	205.3	99.6	26.033	23.855	32.125	40.044	0.163	3.18	40
50	26.041	36.100	4.90	218.8	106.2	26.030	23.856	32.127	40.045	0.203	3.90	50
60	26.040	36.100	4.81	214.8	104.3	26.027	23.857	32.128	40.046	0.244	4.66	60
74	26.010	36.091	4.85	216.3	104.9	25.993	23.861	32.132	40.052	0.301	5.88	74
100	23.592	35.813	4.18	186.6	86.7	23.571	24.386	32.723	40.705	0.400	7.37	100
124	20.664	35.420	3.55	158.6	69.8	20.640	24.913	33.338	41.402	0.482	7.91	124
150	17.820	35.350	2.28	101.8	42.5	17.794	25.592	34.107	42.255	0.554	6.75	149
174	16.522	35.313	2.33	104.0	42.3	16.494	25.875	34.435	42.623	0.609	5.73	173
196	15.028	35.310	2.12	94.7	37.4	14.998	26.212	34.824	43.062	0.653	---	195

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	26.159	36.125	4.69	209.4	101.8	26.157	23.835	32.102	40.018	9
14	26.157	36.109	4.70	209.8	102.0	26.154	23.824	32.092	40.007	14
19	26.071	36.099	4.69	209.4	101.7	26.067	23.844	32.114	40.031	19
24	26.058	36.099	4.61	205.8	99.9	26.053	23.848	32.118	40.036	24
49	26.040	36.097	4.62	206.3	100.1	26.029	23.854	32.125	40.043	49
74	26.015	36.088	4.61	205.8	99.8	25.998	23.857	32.129	40.048	74
78	25.764	36.059	4.40	196.4	94.9	25.747	23.914	32.192	40.117	78
84	24.290	35.867	3.72	166.1	78.1	24.272	24.219	32.537	40.500	84
113	22.772	35.748	3.18	142.0	65.0	22.749	24.575	32.936	40.939	113
139	19.054	35.434	2.10	93.8	40.0	19.029	25.347	33.821	41.931	139
159	14.479	35.361	1.68	75.0	29.3	14.455	26.370	35.000	43.256	158
200	14.836	35.317	1.54	68.8	27.0	14.806	26.260	34.878	43.122	---

CDARWIN 19  
DATE: 1/4/87

STA: 62

TIME: 1216

LAT: 7° 14.8N

LON: 61° 24.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.239	36.072	4.60	205.3	99.9	26.238	23.770	32.036	39.949	0.025	---	6
10	26.237	36.072	4.53	202.1	98.4	26.235	23.771	32.037	39.950	0.041	1.49	10
20	26.133	36.063	4.70	209.8	102.0	26.128	23.797	32.066	39.982	0.082	1.98	20
30	26.104	36.062	4.57	204.0	99.1	26.097	23.806	32.076	39.993	0.123	2.61	30
40	26.099	36.062	4.42	197.2	95.8	26.090	23.808	32.078	39.995	0.164	3.23	40
50	26.094	36.062	4.34	193.7	94.1	26.083	23.811	32.081	39.998	0.205	4.02	50
60	26.092	36.062	4.36	194.6	94.5	26.079	23.812	32.082	40.000	0.247	4.81	60
74	25.929	36.130	4.21	187.8	91.0	25.913	23.915	32.189	40.109	0.304	5.93	74
100	23.562	35.759	3.78	168.8	78.4	23.541	24.353	32.692	40.675	0.405	7.48	100
124	20.673	35.549	2.98	133.0	58.6	20.650	25.008	33.432	41.494	0.485	8.10	124
150	19.130	35.546	1.62	72.2	30.9	19.103	25.413	33.884	41.990	0.558	7.80	149
174	16.134	35.380	1.99	88.8	35.8	16.106	26.016	34.588	42.788	0.614	7.04	173
200	14.593	35.326	1.86	83.1	32.5	14.563	26.320	34.947	43.199	0.663	5.79	199
224	13.556	35.270	1.93	86.0	33.0	13.524	26.496	35.162	43.451	0.703	4.72	223
250	12.766	35.209	1.87	83.3	31.4	12.732	26.610	35.307	43.625	0.743	3.68	249
274	12.292	35.187	1.86	83.0	30.9	12.256	26.686	35.402	43.738	0.778	3.06	273
300	11.979	35.169	2.06	91.9	34.0	11.940	26.733	35.462	43.809	0.814	2.60	299
350	11.491	35.158	1.88	83.7	30.7	11.446	26.817	35.566	43.932	0.882	2.21	349
400	11.085	35.152	1.73	77.4	28.1	11.035	26.888	35.654	44.035	0.945	2.06	399
450	10.755	35.163	1.54	68.8	24.8	10.700	26.957	35.737	44.131	1.007	1.96	449
500	10.507	35.169	1.45	64.9	23.3	10.446	27.007	35.797	44.201	1.066	1.73	499
600	10.112	35.193	1.24	55.2	19.6	10.040	27.096	35.903	44.322	1.179	1.54	599
700	9.805	35.204	1.07	47.9	16.9	9.722	27.159	35.979	44.411	1.287	1.57	699
800	9.160	35.170	1.07	47.6	16.6	9.069	27.241	36.089	44.548	1.389	1.60	799
900	8.675	35.166	1.05	46.9	16.2	8.575	27.316	36.186	44.666	1.485	1.59	899
1000	8.611	35.307	0.70	31.2	10.7	8.500	27.439	36.310	44.790	1.575	2.20	998
1200	6.240	35.078	1.18	52.6	17.1	6.126	27.599	36.582	45.169	1.724	1.65	1198
1400	4.796	34.949	1.72	76.6	24.1	4.676	27.672	36.729	45.384	1.847	1.19	1398
1600	3.898	34.882	2.12	94.8	29.1	3.770	27.716	36.821	45.520	1.957	1.17	1598
1800	3.082	34.824	2.58	115.2	34.7	2.947	27.750	36.898	45.639	2.056	0.82	1798
2000	2.585	34.793	2.84	127.0	37.7	2.439	27.770	36.946	45.713	2.149	0.76	1998
2500	2.028	34.758	3.32	148.2	43.4	1.847	27.790	36.999	45.797	2.367	0.31	2498
3000	1.866	34.748	3.46	154.5	45.1	1.641	27.798	37.019	45.827	2.580	0.22	2997
3500	1.629	34.733	3.85	172.0	49.9	1.359	27.806	37.043	45.867	2.793	0.44	3497
4000	1.495	34.725	4.05	180.9	52.3	1.176	27.813	37.060	45.894	3.004	0.44	3997
4500	1.384	34.719	4.21	188.1	54.2	1.012	27.819	37.076	45.918	3.215	0.22	4497
4582	1.377	34.718	4.23	188.7	54.4	0.996	27.819	37.077	45.920	3.250	---	4579

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
299	11.766	35.151	1.91	85.3	31.4	11.727	26.759	35.496	43.852	298
974	9.001	35.345	0.57	25.4	8.8	8.890	27.406	36.260	44.724	973
1399	4.841	34.952	1.68	75.0	23.6	4.721	27.670	36.724	45.377	1397
1799	3.027	34.820	2.52	112.5	33.8	2.892	27.751	36.903	45.646	1797
2200	2.266	34.772	3.08	137.5	40.5	2.108	27.780	36.975	45.759	2197
2600	1.924	34.748	3.44	153.6	44.9	1.736	27.790	37.006	45.810	2597
2993	1.857	34.746	3.44	153.6	44.8	1.632	27.797	37.018	45.827	2996
3299	1.700	34.736	3.67	163.8	47.6	1.449	27.802	37.034	45.853	3296
3599	1.597	34.730	3.86	172.3	49.9	1.318	27.807	37.046	45.872	3596
3898	1.519	34.725	3.98	177.7	51.4	1.210	27.810	37.056	45.888	3895
4199	1.441	34.722	---	---	---	1.102	27.815	37.067	45.904	4196
4583	1.377	34.718	4.21	187.9	54.1	0.996	27.819	37.077	45.920	---

CDARWIN 19  
DATE: 1/4/87

STA: 63

LAT: 7° 25.8N  
TIME: 1832

LON: 51° 12.2E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.188	36.110	4.55	203.1	98.8	26.187	23.815	32.082	39.996	0.024	---	6
10	26.196	36.110	4.53	202.2	98.4	26.194	23.813	32.079	39.994	0.041	0.44	10
20	26.201	36.111	4.51	201.3	98.0	26.196	23.812	32.079	39.993	0.082	0.98	20
30	26.204	36.112	4.48	200.0	97.4	26.197	23.813	32.079	39.994	0.123	1.83	30
40	26.204	36.113	4.64	206.9	100.7	26.195	23.814	32.081	39.995	0.163	2.80	40
50	26.205	36.112	4.64	207.0	100.7	26.194	23.814	32.080	39.995	0.204	3.71	50
60	26.207	36.117	4.51	201.6	98.1	26.194	23.818	32.084	39.999	0.245	4.64	60
74	26.212	36.124	4.48	199.8	97.3	26.195	23.823	32.089	40.003	0.303	5.88	74
100	24.472	35.881	4.09	182.5	86.1	24.451	24.175	32.489	40.447	0.408	7.68	100
124	20.650	35.558	2.73	121.9	53.7	20.627	25.022	33.446	41.508	0.488	8.08	124
150	18.314	35.433	2.08	92.7	39.0	18.288	25.533	34.032	42.163	0.559	7.60	149
174	16.971	35.383	1.91	85.2	35.0	16.942	25.823	34.366	42.540	0.616	6.85	173
200	15.023	35.324	1.64	73.2	28.9	14.993	26.224	34.836	43.073	0.669	5.95	199
224	13.347	35.228	1.78	79.6	30.3	13.316	26.506	35.181	43.478	0.710	5.05	223
250	12.812	35.207	2.09	93.4	35.2	12.778	26.599	35.294	43.610	0.750	3.98	249
274	12.387	35.203	1.83	81.8	30.6	12.350	26.680	35.392	43.724	0.785	3.20	273
300	12.026	35.183	1.88	83.9	31.1	11.987	26.735	35.462	43.807	0.821	2.70	299
350	11.505	35.174	1.87	83.3	30.5	11.460	26.827	35.575	43.941	0.888	2.27	349
400	11.042	35.162	1.66	74.0	26.9	10.992	26.904	35.671	44.054	0.951	1.99	399
450	11.110	35.238	1.26	56.2	20.4	11.053	26.952	35.716	44.096	1.013	1.84	449
500	10.606	35.198	1.34	59.6	21.5	10.546	27.012	35.797	44.197	1.072	1.84	499
600	10.210	35.216	1.14	50.8	18.1	10.138	27.097	35.899	44.314	1.185	1.58	599
700	9.814	35.220	1.07	47.9	16.9	9.731	27.170	35.989	44.420	1.292	1.64	699
800	9.836	35.338	0.81	36.2	12.8	9.741	27.260	36.077	44.507	1.394	1.73	799
900	9.368	35.370	0.62	27.7	9.7	9.263	27.365	36.202	44.651	1.489	1.90	899
1000	8.341	35.286	0.75	33.3	11.1	8.232	27.464	36.347	44.839	1.575	1.75	998
1200	6.678	35.119	1.07	47.5	15.6	6.560	27.574	36.536	45.102	1.726	1.54	1198
1400	4.863	34.953	1.71	76.3	24.0	4.743	27.668	36.721	45.373	1.854	1.30	1398
1600	3.790	34.871	2.19	97.9	30.0	3.663	27.718	36.829	45.533	1.964	1.06	1598
1800	3.033	34.820	2.54	113.4	34.1	2.898	27.751	36.902	45.646	2.064	0.91	1798
2000	2.575	34.794	2.84	126.9	37.7	2.429	27.772	36.949	45.716	2.156	0.82	1998
2500	2.003	34.756	3.37	150.3	44.0	1.822	27.791	37.001	45.801	2.371	0.31	2498
3000	1.800	34.746	3.46	154.4	45.0	1.576	27.801	37.026	45.838	2.583	0.22	2997
3500	1.635	34.735	3.81	169.9	49.3	1.365	27.807	37.044	45.867	2.794	0.22	3497
4000	1.411	34.722	4.10	183.1	52.8	1.094	27.816	37.068	45.906	3.004	0.44	3997
4500	1.353	34.718	4.19	186.9	53.8	0.982	27.820	37.079	45.923	3.210	-0.22	4497
4588	1.362	34.718	4.21	187.9	54.1	0.981	27.820	37.079	45.923	3.246	---	4585

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
324	11.710	35.161	1.81	80.8	29.8	11.668	26.778	35.518	43.875	324
581	10.562	35.258	1.03	46.0	16.5	10.491	27.068	35.855	44.256	580
849	9.536	35.383	0.59	26.3	9.3	9.437	27.347	36.176	44.617	847
1199	6.658	35.117	1.01	45.1	14.8	6.540	27.574	36.538	45.105	1198
1699	3.408	34.847	2.34	104.5	31.7	3.277	27.737	36.868	45.592	1697
2199	2.308	34.775	3.04	135.7	40.1	2.149	27.779	36.972	45.754	2197
2501	1.940	34.750	3.45	154.0	45.0	1.751	27.791	37.006	45.809	2599
2999	1.782	34.741	3.57	159.4	46.4	1.559	27.798	37.024	45.837	2996
3400	1.675	34.736	3.72	166.1	48.2	1.414	27.805	37.039	45.859	3397
3799	1.513	34.727	3.98	177.7	51.4	1.215	27.811	37.057	45.888	3796
4199	1.374	34.720	4.15	185.3	53.4	1.037	27.818	37.074	45.915	4196
4592	1.362	34.718	4.18	186.6	53.7	0.980	27.820	37.079	45.923	---

CDARWIN 19  
DATE: 1/5/87

STA: 64

TIME: 0010

LAT: 7° 33.1N

LON: 51° 4.0E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.221	36.111	4.56	203.7	99.2	26.220	23.805	32.071	39.985	0.025	---	6
10	26.226	36.111	4.50	200.9	97.8	26.224	23.804	32.069	39.983	0.041	0.93	10
20	26.232	36.111	4.63	206.6	100.6	26.228	23.802	32.068	39.982	0.082	1.12	20
30	26.239	36.115	4.68	208.9	101.8	26.232	23.804	32.070	39.983	0.123	1.31	30
40	26.241	36.116	4.53	202.0	98.4	26.232	23.805	32.070	39.984	0.164	1.86	40
50	26.243	36.119	4.46	199.3	97.1	26.232	23.807	32.073	39.986	0.205	2.90	50
60	26.262	36.130	4.31	192.4	93.7	26.248	23.810	32.075	39.988	0.246	3.91	60
74	26.330	36.234	4.44	198.1	96.7	26.313	23.868	32.130	40.041	0.303	5.16	74
100	26.200	36.221	4.56	203.7	99.2	26.178	23.901	32.167	40.081	0.409	7.15	100
124	21.314	35.504	3.01	134.5	59.9	21.290	24.800	33.205	41.250	0.498	8.05	124
150	18.899	35.466	2.06	92.1	39.2	18.872	25.412	33.891	42.005	0.573	7.70	149
174	17.644	35.498	0.87	38.9	16.2	17.614	25.749	34.268	42.420	0.632	6.88	173
200	16.132	35.369	1.60	71.4	28.8	16.100	26.009	34.581	42.782	0.689	5.97	199
224	14.764	35.300	1.70	76.1	29.9	14.730	26.263	34.884	43.131	0.735	5.37	223
250	13.974	35.416	1.34	59.9	23.2	13.938	26.522	35.171	43.444	0.779	4.74	249
274	13.330	35.403	1.20	53.5	20.4	13.291	26.647	35.320	43.615	0.815	4.03	273
300	12.775	35.369	1.15	51.4	19.4	12.734	26.733	35.428	43.744	0.852	3.30	299
350	11.372	35.156	1.87	83.6	30.6	11.327	26.837	35.591	43.962	0.919	2.32	349
400	11.026	35.149	1.72	76.7	27.8	10.976	26.896	35.664	44.048	0.982	1.84	399
450	10.823	35.166	1.56	69.8	25.2	10.767	26.947	35.724	44.115	1.044	1.80	449
500	10.948	35.274	1.14	51.1	18.5	10.885	27.010	35.780	44.166	1.103	1.76	499
600	10.403	35.259	1.18	52.6	18.8	10.330	27.098	35.891	44.298	1.217	1.74	599
700	11.295	35.582	0.55	24.5	9.0	11.205	27.192	35.944	44.314	1.324	1.58	699
800	10.642	35.579	0.52	23.1	8.3	10.542	27.310	36.089	44.484	1.426	2.15	799
900	9.107	35.347	0.65	29.0	10.1	9.004	27.390	36.238	44.697	1.517	1.77	899
1000	8.436	35.314	0.69	30.8	10.6	8.326	27.471	36.350	44.838	1.601	1.52	998
1200	6.250	35.075	1.18	52.5	17.1	6.136	27.595	36.578	45.164	1.749	1.60	1198
1400	4.795	34.944	1.73	77.1	24.2	4.676	27.668	36.726	45.381	1.874	1.39	1398
1600	3.598	34.857	2.31	103.2	31.5	3.474	27.726	36.846	45.561	1.982	1.08	1598
1800	3.058	34.824	2.58	115.4	34.7	2.923	27.752	36.902	45.644	2.080	0.91	1798
2000	2.610	34.795	2.84	126.7	37.7	2.464	27.769	36.945	45.710	2.172	0.70	1998
2500	2.056	34.760	3.25	144.9	42.5	1.874	27.790	36.998	45.794	2.389	0.49	2498
3000	1.834	34.745	3.48	155.5	45.3	1.609	27.798	37.021	45.831	2.602	0.22	2997
3500	1.716	34.736	3.74	167.1	48.6	1.444	27.803	37.035	45.854	2.817	0.38	3497
3988	1.310	34.718	4.14	185.0	53.2	0.997	27.819	37.077	45.920	3.018	---	3985

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
349	11.648	35.230	1.45	64.7	23.8	11.603	26.844	35.585	43.944	348
548	10.700	35.231	1.20	53.6	19.3	10.632	27.022	35.803	44.199	547
749	11.033	35.567	0.49	21.9	8.0	10.938	27.229	35.993	44.373	748
1199	6.498	35.100	1.07	47.8	15.7	6.382	27.582	36.554	45.128	1197
1598	3.905	34.9	2.07	92.4	28.4	3.777	27.713	36.817	45.516	1596
1999	2.587	34.793	2.80	125.0	37.2	2.441	27.770	36.946	45.713	1997
2399	2.110	34.762	3.20	142.9	42.0	1.936	27.786	36.991	45.784	2396
2799	1.903	34.748	3.38	150.9	44.1	1.696	27.793	37.011	45.817	2797
3099	1.808	34.743	3.52	157.1	45.8	1.574	27.799	37.023	45.836	3096
3399	1.727	34.736	3.70	165.2	48.0	1.465	27.801	37.032	45.850	3396
3699	1.496	34.725	3.98	177.7	51.4	1.209	27.810	37.056	45.888	3696
3992	1.309	34.717	4.17	186.2	53.5	0.996	27.818	37.076	45.919	---

CDARWIN 19  
DATE: 1/5/87

STA: 65

LAT: 7° 45.0N  
TIME: 0650

LON: 50° 50 9E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.156	36.065	4.75	212.0	103.1	26.155	23.790	32.058	39.974	0.025	---	6
10	26.156	36.065	4.72	210.9	102.6	26.154	23.791	32.059	39.974	0.041	1.42	10
20	26.158	36.066	4.64	207.4	100.8	26.154	23.791	32.059	39.975	0.082	1.52	20
30	26.175	36.102	4.72	210.9	102.6	26.168	23.814	32.081	39.997	0.123	1.61	30
40	26.197	36.162	4.68	209.0	101.7	26.188	23.853	32.119	40.033	0.164	1.68	40
50	26.212	36.178	4.68	209.0	101.8	26.201	23.861	32.127	40.040	0.204	2.21	50
60	26.222	36.189	4.67	208.4	101.5	26.208	23.867	32.132	40.046	0.245	3.21	60
74	26.250	36.228	4.65	207.8	101.3	26.233	23.889	32.153	40.065	0.302	4.75	74
100	26.282	36.242	4.65	207.4	101.2	26.259	23.891	32.155	40.066	0.407	7.41	100
124	22.549	35.668	3.62	161.6	73.7	22.524	24.579	32.947	40.956	0.501	8.99	124
150	17.472	35.437	2.05	91.7	38.0	17.447	25.743	34.269	42.426	0.576	8.11	149
174	15.731	35.466	1.30	58.3	23.3	15.704	26.175	34.760	42.972	0.625	6.83	173
196	14.822	35.487	0.96	42.7	16.8	14.792	26.394	35.010	43.253	0.664	---	195

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	26.160	36.077	4.73	211.2	102.7	26.158	23.799	32.066	39.982	9
19	26.160	36.083	4.73	211.2	102.7	26.156	23.804	32.072	39.987	19
28	26.186	36.144	4.71	210.3	102.3	26.180	23.842	32.109	40.023	28
39	26.199	36.181	4.71	210.3	102.4	26.190	23.867	32.133	40.047	39
49	26.212	36.190	4.68	208.9	101.7	26.201	23.870	32.136	40.049	49
59	26.226	36.206	4.70	209.8	102.2	26.213	23.879	32.144	40.057	59
99	26.278	36.246	4.59	204.9	99.9	26.256	23.895	32.159	40.071	99
109	25.817	36.159	4.46	199.1	96.3	25.793	23.975	32.251	40.174	108
119	23.913	35.925	4.03	179.9	84.1	23.888	24.377	32.706	40.677	118
129	22.015	35.710	2.66	118.8	53.6	21.990	24.762	33.145	41.168	128
159	16.688	35.450	1.48	66.1	27.0	16.662	25.941	34.493	42.674	159
199	14.758	35.485	0.90	40.2	15.8	14.728	26.406	35.026	43.270	---

CDARWIN 19  
DATE: 1/5/87

STA: 66

TIME: 0715

LAT: 7° 44.0N

LON: 50° 52.3E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.230	36.187	4.87	217.5	106.0	26.229	23.860	32.125	40.037	0.024	---	6
10	26.229	36.187	4.91	219.0	106.7	26.227	23.860	32.125	40.038	0.040	0.44	10
20	26.227	36.187	4.88	218.0	106.2	26.223	23.862	32.127	40.040	0.081	0.44	20
30	26.228	36.187	4.84	216.2	105.3	26.221	23.862	32.127	40.040	0.121	0.54	30
40	26.214	36.189	4.63	206.9	100.8	26.205	23.869	32.134	40.048	0.162	0.76	40
50	26.215	36.190	4.69	209.2	101.9	26.204	23.870	32.135	40.049	0.202	1.67	50
60	26.215	36.192	4.60	205.5	100.1	26.202	23.871	32.137	40.050	0.243	2.80	60
74	26.217	36.194	4.72	210.8	102.7	26.200	23.873	32.139	40.052	0.299	4.36	74
100	26.208	36.196	4.74	211.8	103.1	26.186	23.880	32.146	40.060	0.405	7.02	100
124	23.462	35.793	3.67	164.1	76.1	23.436	24.410	32.752	40.737	0.499	8.67	124
150	18.808	35.467	2.33	103.8	44.1	18.781	25.435	33.917	42.034	0.578	8.75	149
174	16.298	35.439	1.72	76.9	31.1	16.270	26.024	34.589	42.784	0.632	7.70	173
200	14.880	35.469	1.29	57.7	22.7	14.850	26.368	34.982	43.223	0.680	6.09	199
224	14.019	35.446	1.11	49.7	19.3	13.986	26.535	35.182	43.452	0.719	4.68	223
250	13.231	35.382	1.15	51.2	19.5	13.196	26.650	35.327	43.626	0.758	3.65	249
274	12.896	35.382	0.86	38.3	14.5	12.858	26.718	35.408	43.719	0.792	3.00	273
300	12.750	35.415	0.88	39.3	14.8	12.709	26.773	35.469	43.785	0.828	2.63	299
350	12.812	35.556	0.52	23.1	8.7	12.764	26.872	35.564	43.876	0.893	2.26	349
400	12.463	35.539	0.53	23.5	8.8	12.409	26.929	35.634	43.960	0.956	1.99	399
450	12.344	35.594	0.68	30.2	11.3	12.283	26.996	35.706	44.035	1.016	1.77	449
500	11.900	35.532	0.62	27.8	10.3	11.834	27.035	35.763	44.110	1.074	1.58	499
600	11.834	35.572	0.59	26.2	9.7	11.755	27.081	35.812	44.161	1.188	1.47	599
700	10.693	35.470	0.46	20.7	7.5	10.606	27.213	35.992	44.386	1.296	2.11	699
800	10.062	35.455	0.46	20.6	7.3	9.965	27.313	36.119	44.538	1.394	1.83	799
900	9.060	35.361	0.50	22.2	7.7	8.957	27.409	36.259	44.720	1.484	1.66	899
1000	8.543	35.321	0.54	24.1	8.3	8.432	27.460	36.334	44.817	1.567	1.46	998
1200	6.315	35.056	1.21	53.8	17.5	6.200	27.572	36.552	45.135	1.717	1.39	1198
1400	5.054	34.965	1.61	72.0	22.8	4.932	27.656	36.700	45.343	1.847	1.37	1398
1600	3.929	34.879	2.16	96.3	29.6	3.801	27.711	36.814	45.512	1.960	1.08	1598
1800	3.199	34.834	2.52	112.5	34.0	3.062	27.747	36.889	45.624	2.062	0.85	1798
2000	2.622	34.797	2.84	127.0	37.8	2.476	27.770	36.944	45.709	2.155	0.66	1998
2500	2.107	34.763	3.26	145.4	42.7	1.924	27.788	36.993	45.786	2.375	0.31	2498
3000	1.815	34.746	3.53	157.4	45.9	1.591	27.800	37.023	45.836	2.589	0.22	2997
3275	1.769	34.742	3.56	158.8	46.2	1.519	27.802	37.030	45.846	2.707	---	3273

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
199	14.885	35.420	1.26	56.3	22.2	14.855	26.329	34.944	43.185	198
346	12.540	35.438	0.72	32.1	12.1	12.493	26.834	35.537	43.861	345
574	11.645	35.511	0.59	26.3	9.7	11.570	27.069	35.807	44.164	573
823	10.214	35.499	0.44	19.6	7.0	10.114	27.323	36.121	44.534	821
999	8.590	35.331	0.50	22.3	7.7	8.479	27.461	36.332	44.813	997
1199	6.296	35.059	1.18	52.7	17.2	6.182	27.576	36.558	45.142	1197
1799	3.212	34.833	2.44	108.9	32.9	3.075	27.745	36.887	45.621	1797
2199	2.341	34.777	3.01	134.4	39.7	2.181	27.778	36.969	45.750	2197
2499	2.106	34.759	3.23	144.2	42.3	1.923	27.785	36.990	45.784	2497
2800	1.901	34.751	3.41	152.2	44.5	1.694	27.796	37.014	45.820	2797
2998	1.815	34.744	3.50	156.3	45.5	1.591	27.798	37.022	45.833	2996
3275	1.770	34.743	3.55	158.5	46.1	1.520	27.802	37.030	45.846	3273



CDARWIN 19  
DATE: 1/5/87

STA: 67

LAT: 7° 54.8N  
TIME: 1221

LON: 50° 38.5E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.156	35.908	4.93	220.1	106.9	26.155	23.672	31.942	39.859	0.025	---	6
10	26.158	35.909	4.88	217.9	105.9	26.156	23.672	31.942	39.859	0.042	2.21	10
20	26.122	35.906	4.85	216.7	105.2	26.118	23.682	31.953	39.871	0.084	2.57	20
30	26.051	35.901	4.84	216.3	104.9	26.044	23.701	31.974	39.894	0.126	3.16	30
40	25.965	35.882	4.68	209.1	101.2	25.956	23.715	31.990	39.912	0.168	3.83	40
50	25.948	35.880	4.82	215.0	104.1	25.937	23.719	31.994	39.917	0.210	4.68	50
60	25.790	35.873	4.77	213.1	102.9	25.777	23.764	32.043	39.970	0.252	5.68	60
74	25.005	35.794	4.43	197.7	94.1	24.989	23.947	32.247	40.193	0.309	6.88	74
100	23.071	35.578	4.01	179.0	82.3	23.050	24.359	32.713	40.710	0.410	8.42	100
124	19.493	35.487	2.96	132.0	56.9	19.470	25.274	33.734	41.830	0.487	8.69	124
150	16.764	35.411	1.91	85.2	34.8	16.739	25.893	34.442	42.622	0.549	7.61	149
174	15.551	35.497	1.36	60.6	24.2	15.524	26.239	34.830	43.047	0.597	6.22	173
200	14.548	35.429	1.15	51.4	20.2	14.618	26.387	35.011	43.260	0.642	4.60	199
224	13.797	35.347	1.52	68.1	26.2	13.765	26.506	35.162	43.441	0.682	3.77	223
250	13.530	35.362	1.52	67.9	26.0	13.494	26.573	35.239	43.528	0.722	3.17	249
274	13.334	35.393	1.24	55.4	21.2	13.295	26.638	35.311	43.607	0.758	3.01	273
300	13.016	35.411	1.04	46.3	17.5	12.974	26.717	35.403	43.709	0.795	2.84	299
350	12.735	35.488	0.73	32.7	12.3	12.687	26.835	35.530	43.846	0.863	2.61	349
400	13.280	35.764	0.64	28.7	10.9	13.223	26.940	35.611	43.905	0.926	2.09	399
450	12.338	35.567	0.71	31.8	11.9	12.277	26.976	35.686	44.016	0.986	1.69	449
500	12.012	35.555	0.67	30.1	11.2	11.946	27.031	35.754	44.096	1.045	1.60	499
600	11.532	35.539	0.60	26.7	9.8	11.454	27.112	35.855	44.216	1.158	1.93	599
700	10.468	35.452	0.47	21.1	7.6	10.382	27.239	36.027	44.430	1.263	1.93	699
800	10.255	35.549	0.49	22.0	7.9	10.157	27.354	36.150	44.561	1.358	1.70	799
900	9.203	35.418	0.55	24.4	8.5	9.099	27.430	36.273	44.728	1.447	1.81	899
1000	8.665	35.377	0.64	28.4	9.8	8.553	27.485	36.353	44.830	1.529	1.37	998
1200	7.146	35.208	0.90	40.4	13.4	7.024	27.580	36.519	45.064	1.680	1.41	1198
1400	5.374	34.989	1.53	68.2	21.7	5.248	27.638	36.666	45.293	1.814	1.12	1398
1600	4.336	34.910	1.95	87.1	27.1	4.203	27.693	36.775	45.453	1.934	1.25	1598
1800	3.379	34.845	2.44	108.8	33.0	3.240	27.739	36.872	45.598	2.039	0.91	1798
2000	2.742	34.800	2.84	126.7	37.8	2.594	27.752	36.930	45.689	2.136	0.70	1998
2500	2.114	34.764	3.35	149.6	43.9	1.931	27.788	36.993	45.786	2.359	0.38	2498
2540	2.118	34.764	3.33	148.5	43.6	1.931	27.788	36.993	45.786	2.376	---	2538

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	26.097	35.911	4.86	216.5	105.1	26.092	23.694	31.965	39.884	23
179	15.500	35.530	0.93	41.5	16.6	15.472	26.276	34.868	43.087	178
230	14.023	35.378	1.24	55.4	21.4	13.990	26.482	35.130	43.401	229
389	13.106	35.686	0.63	28.1	10.7	13.052	26.915	35.593	43.894	388
414	12.275	35.522	0.70	31.3	11.7	12.219	26.953	35.666	43.998	413
779	10.363	35.518	0.48	21.4	7.7	10.267	27.311	36.103	44.509	777
1098	8.061	35.291	0.68	30.4	10.3	7.943	27.511	36.408	44.912	1097
1399	5.352	34.987	1.48	66.1	21.1	5.227	27.638	36.667	45.296	1397
1699	3.735	34.868	2.17	96.9	29.7	3.600	27.722	36.836	45.543	1697
1994	2.741	34.803	2.75	122.8	36.6	2.593	27.764	36.932	45.691	1991
2199	2.373	34.780	2.99	133.5	39.5	2.213	27.778	36.967	45.746	2197
2543	2.120	34.764	3.18	142.0	41.7	1.933	27.788	36.993	45.786	---

CDARWIN 19  
DATE: 1/5/87

STA: 68

TIME: 1620

LAT: 8° 1.6N

LON: 50° 28.5E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.483	35.598	5.30	236.4	115.3	26.482	23.335	31.601	39.514	0.018	---	4
10	26.490	35.598	5.07	226.4	110.4	26.488	23.334	31.599	39.512	0.045	1.03	10
20	26.494	35.600	4.93	220.0	107.3	26.490	23.334	31.600	39.512	0.091	1.55	20
30	26.499	35.604	4.96	221.6	108.1	26.492	23.337	31.602	39.514	0.136	2.05	30
40	26.522	35.607	4.93	220.3	107.5	26.513	23.332	31.597	39.509	0.182	3.14	40
50	26.551	35.634	5.00	223.3	109.0	26.540	23.344	31.607	39.519	0.227	4.69	50
60	26.537	35.654	5.03	224.7	109.7	26.523	23.364	31.628	39.540	0.273	5.77	60
74	26.466	35.661	4.99	222.9	108.7	26.449	23.393	31.658	39.572	0.336	7.30	74
100	25.746	35.696	5.00	223.3	107.6	25.724	23.647	31.930	39.859	0.451	9.44	100
124	18.968	35.472	2.84	126.8	54.1	18.946	25.397	33.874	41.985	0.534	9.62	123
150	16.878	35.451	2.10	93.7	38.4	16.853	25.896	34.441	42.617	0.596	8.29	149
174	15.581	35.480	1.41	62.8	25.1	15.554	26.219	34.809	43.026	0.642	6.42	173
200	14.686	35.461	1.21	54.2	21.3	14.656	26.404	35.026	43.273	0.688	4.71	199
224	14.494	35.523	1.00	44.7	17.5	14.461	26.494	35.122	43.375	0.727	3.79	223
250	13.703	35.467	1.12	50.1	19.3	13.667	26.619	35.277	43.559	0.767	3.19	249
274	13.518	35.481	1.05	46.7	17.9	13.479	26.669	35.334	43.622	0.802	2.70	273
300	13.198	35.464	0.95	42.6	16.2	13.156	26.722	35.399	43.699	0.839	2.34	299
350	12.950	35.468	0.91	40.7	15.4	12.901	26.776	35.464	43.772	0.909	2.18	349
400	12.159	35.386	0.93	41.3	15.4	12.106	26.869	35.588	43.927	0.975	2.13	399
450	12.596	35.556	0.77	34.6	13.0	12.534	26.918	35.618	43.938	1.038	2.18	449
500	12.066	35.544	0.71	31.6	11.7	11.999	27.013	35.734	44.074	1.099	2.25	499
600	11.016	35.424	0.66	29.3	10.7	10.940	27.117	35.883	44.199	1.211	2.02	599
700	10.614	35.506	0.50	22.1	8.0	10.527	27.255	36.037	44.400	1.314	1.73	699
800	10.313	35.522	0.51	22.9	8.2	10.215	27.323	36.117	44.525	1.409	1.55	799
900	9.597	35.458	0.52	23.3	8.2	9.491	27.397	36.223	44.661	1.500	1.59	899
1000	8.377	35.326	0.67	29.9	10.2	8.267	27.490	36.371	44.861	1.585	1.84	998
1200	6.622	35.095	0.94	41.9	13.8	6.505	27.562	36.527	45.096	1.736	1.63	1198
1374	5.572	35.025	1.30	58.0	18.6	5.447	27.642	36.660	45.278	1.851	---	1372

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.567	35.591	4.82	215.2	105.1	26.562	23.305	31.568	39.479	24
98	24.936	35.619	4.32	192.9	91.6	24.915	23.837	32.141	40.091	97
199	14.653	35.474	0.91	40.6	15.9	14.623	26.421	35.044	43.292	198
224	14.052	35.500	0.83	37.1	14.4	14.019	26.570	35.215	43.484	223
399	12.207	35.375	0.83	37.1	13.8	12.154	26.851	35.569	43.906	398
499	12.027	35.509	0.72	32.1	11.9	11.961	26.993	35.716	44.058	498
599	11.129	35.423	0.58	25.9	9.4	11.053	27.096	35.857	44.234	598
699	10.613	35.485	0.43	19.2	6.9	10.526	27.239	36.021	44.418	698
799	10.362	35.516	0.45	20.1	7.2	10.264	27.310	36.102	44.509	797
998	8.439	35.336	0.64	28.6	9.8	8.329	27.488	36.366	44.853	996
1199	6.509	35.089	1.07	47.8	15.7	6.393	27.572	36.543	45.117	1197
1377	5.555	35.023	1.35	60.3	19.3	5.430	27.642	36.661	45.280	---

CDARWIN 19  
DATE: 1/5/87

STA: 69

TIME: 1917

LAT: 8° 10.0N

LON: 50° 20.7E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.342	35.547	4.69	209.2	101.8	26.341	23.341	31.611	39.528	0.027	---	6
10	26.344	35.547	4.54	202.8	98.6	26.342	23.341	31.610	39.527	0.045	0.62	10
20	26.343	35.547	4.77	213.0	103.6	26.338	23.342	31.611	39.528	0.091	1.35	20
30	26.346	35.547	4.94	220.4	107.2	26.339	23.342	31.611	39.528	0.136	2.61	30
40	26.348	35.547	4.93	220.0	107.0	26.339	23.342	31.611	39.528	0.181	4.10	40
50	26.346	35.547	4.99	222.5	108.2	26.335	23.343	31.613	39.530	0.227	5.36	50
60	26.333	35.548	4.62	206.2	100.3	26.320	23.349	31.619	39.536	0.272	6.45	60
74	26.299	35.550	4.72	210.7	102.4	26.282	23.362	31.633	39.551	0.336	7.84	74
100	24.100	35.622	4.26	190.0	89.0	24.079	24.091	32.417	40.388	0.450	9.61	100
124	18.437	35.511	2.34	104.2	44.0	18.415	25.561	34.055	42.181	0.521	8.94	124
150	16.872	35.484	1.54	68.8	28.2	16.847	25.923	34.468	42.643	0.581	7.18	149
174	16.667	35.487	1.32	58.8	24.0	16.639	25.974	34.527	42.709	0.631	5.19	173
200	15.925	35.493	1.02	45.4	18.3	15.893	26.152	34.730	42.936	0.683	4.21	199
224	15.494	35.483	0.92	41.1	16.4	15.459	26.243	34.836	43.056	0.728	3.93	223
250	14.509	35.467	0.89	39.8	15.6	14.472	26.448	35.077	43.330	0.773	3.74	249
274	14.479	35.465	0.90	40.3	15.8	14.438	26.454	35.084	43.338	0.813	3.51	273
300	13.762	35.450	0.88	39.3	15.1	13.719	26.595	35.252	43.531	0.854	3.25	299
350	13.002	35.413	0.86	38.3	14.5	12.953	26.723	35.409	43.717	0.926	2.97	349
400	11.941	35.378	0.84	37.5	13.9	11.888	26.905	35.633	43.980	0.993	3.00	399
450	11.359	35.367	0.80	35.7	13.1	11.302	27.007	35.759	44.127	1.054	2.38	449
500	11.010	35.340	0.92	41.2	15.0	10.947	27.051	35.817	44.200	1.111	1.52	499
600	10.847	35.355	0.83	37.0	13.4	10.772	27.094	35.868	44.257	1.222	0.82	599
612	10.818	35.361	0.78	34.9	12.6	10.742	27.104	35.879	44.269	1.236	---	611

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
38	26.341	35.549	4.93	220.1	107.0	26.333	23.345	31.615	39.532	38
68	26.309	35.552	4.95	221.0	107.4	26.294	23.360	31.630	39.548	68
129	17.990	35.513	1.72	76.8	32.2	17.968	25.674	34.182	42.322	128
162	16.786	35.494	1.26	56.3	23.0	16.760	25.952	34.500	42.678	161
186	16.058	35.489	1.13	50.4	20.3	16.028	26.118	34.691	42.893	185
219	15.514	35.484	0.98	43.8	17.5	15.480	26.239	34.832	43.051	218
249	14.532	35.468	0.91	40.6	15.9	14.495	26.444	35.072	43.324	248
349	13.068	35.416	0.87	38.8	14.7	13.019	26.712	35.396	43.700	348
424	11.895	35.408	0.76	33.9	12.6	11.839	26.937	35.667	44.015	423
449	11.573	35.388	0.78	34.8	12.8	11.515	26.983	35.726	44.086	448
548	10.935	35.344	0.89	39.7	14.4	10.866	27.068	35.838	44.224	547
614	10.819	35.608	0.75	33.5	12.1	10.742	27.296	36.068	44.454	---

CDARWIN 19  
DATE: 1/6/87

STA: 70

LAT: 6° 49.7N  
TIME: 0326

LON: 50° 2.8E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.095	36.101	4.53	202.1	98.2	26.094	23.837	32.106	40.023	0.024	---	6
10	26.095	36.100	4.61	205.6	99.9	26.093	23.836	32.105	40.022	0.041	0.00	10
20	26.110	36.099	4.66	208.0	101.1	26.106	23.831	32.100	40.017	0.081	0.44	20
30	26.111	36.099	4.66	208.2	101.2	26.104	23.832	32.101	40.017	0.122	1.20	30
40	26.117	36.101	4.63	206.7	100.4	26.108	23.832	32.101	40.017	0.163	2.38	40
50	26.120	36.103	4.51	201.3	97.8	26.109	23.833	32.102	40.019	0.204	3.55	50
60	26.122	36.104	4.47	199.3	96.9	26.108	23.834	32.103	40.019	0.244	4.55	60
74	26.119	36.106	4.43	197.9	96.2	26.102	23.838	32.107	40.023	0.302	5.86	74
100	25.372	36.056	4.05	180.6	86.6	25.350	24.034	32.322	40.257	0.407	7.97	100
124	19.963	35.409	2.96	132.0	57.3	19.940	25.091	33.538	41.621	0.489	8.44	124
150	18.176	35.436	1.73	77.1	32.4	18.150	25.570	34.073	42.208	0.557	7.76	149
174	15.725	35.316	1.37	61.0	24.4	15.698	26.061	34.647	42.862	0.610	6.54	173
200	14.859	35.277	1.66	74.3	29.2	14.829	26.224	34.842	43.086	0.660	5.33	199
224	13.900	35.253	1.80	80.5	31.1	13.868	26.411	35.065	43.342	0.702	4.59	223
250	13.061	35.236	1.60	71.6	27.1	13.026	26.571	35.257	43.564	0.743	3.94	249
274	12.431	35.193	1.76	78.5	29.4	12.394	26.663	35.374	43.704	0.779	3.43	273
300	12.120	35.197	1.65	73.7	27.4	12.080	26.727	35.450	43.792	0.816	2.94	299
350	11.354	35.153	1.58	70.5	25.8	11.310	26.839	35.593	43.964	0.883	2.40	349
400	10.878	35.130	1.51	67.5	24.4	10.829	26.909	35.683	44.073	0.946	2.00	399
450	10.655	35.141	1.42	63.2	22.8	10.600	26.958	35.742	44.140	1.006	1.74	449
500	10.290	35.116	1.42	63.4	22.6	10.230	27.003	35.802	44.216	1.065	1.69	499
600	10.210	35.236	0.93	41.6	14.8	10.138	27.113	35.915	44.330	1.178	1.63	599
700	9.814	35.261	0.81	36.2	12.8	9.731	27.202	36.021	44.452	1.284	1.80	699
800	9.988	35.409	0.55	24.6	8.8	9.892	27.290	36.100	44.522	1.383	1.92	799
900	9.097	35.355	0.57	25.6	8.9	8.994	27.398	36.246	44.706	1.474	1.77	899
1000	8.237	35.261	0.73	32.6	11.1	8.129	27.460	36.348	44.845	1.567	1.34	998
1196	6.986	35.136	1.00	44.4	14.7	6.866	27.545	36.492	45.045	1.708	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.108	36.100	4.70	209.8	102.0	26.103	23.833	32.102	40.019	24
74	26.109	36.100	4.73	211.2	102.6	26.092	23.837	32.106	40.023	74
119	20.696	35.527	2.74	122.3	53.9	20.674	24.985	33.409	41.470	118
159	16.567	35.405	1.11	49.6	20.2	16.541	25.935	34.491	42.677	158
278	12.194	35.189	1.76	78.6	29.2	12.157	26.706	35.426	43.765	277
399	11.018	35.132	1.73	77.2	28.0	10.968	26.885	35.653	44.038	398
524	10.358	35.127	1.48	66.1	23.6	10.295	27.001	35.797	44.208	523
624	10.191	35.232	1.01	45.1	16.1	10.116	27.114	35.916	44.332	622
749	9.484	35.217	0.90	40.2	14.1	9.397	27.224	36.057	44.502	748
799	10.015	35.407	0.56	25.0	8.9	9.919	27.284	36.092	44.514	798
999	8.245	35.263	0.70	31.3	10.7	8.137	27.460	36.348	44.844	998
1200	6.974	35.135	0.98	43.8	14.5	6.854	27.546	36.494	45.048	---

CDARWIN 19  
DATE: 1/8/87

STA: 71

LAT: 5° 30.6N  
TIME: 1211

LON: 49° 44.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	26.250	36.064	5.23	233.5	113.7	26.249	23.760	32.026	39.940	0.017	---	4
10	26.249	36.071	5.05	225.4	109.8	26.247	23.766	32.032	39.946	0.041	3.13	10
20	26.219	36.073	5.15	230.0	111.9	26.215	23.778	32.045	39.959	0.083	3.36	20
30	26.205	36.073	5.05	225.5	109.7	26.198	23.783	32.050	39.965	0.124	3.70	30
40	26.148	36.071	4.86	216.9	105.4	26.139	23.800	32.069	39.985	0.165	4.33	40
50	26.028	36.073	4.92	219.5	106.5	26.017	23.840	32.112	40.030	0.206	5.08	50
60	24.833	36.077	4.50	201.0	95.6	24.820	24.212	32.514	40.461	0.245	5.64	60
74	24.704	36.074	4.53	202.3	96.0	24.688	24.250	32.555	40.505	0.296	6.44	74
100	24.287	36.027	4.40	196.5	92.5	24.266	24.341	32.658	40.620	0.392	7.61	100
124	19.539	35.459	2.72	121.6	52.4	19.516	25.240	33.699	41.794	0.468	7.73	124
150	17.315	35.357	2.08	92.6	38.3	17.290	25.720	34.252	42.415	0.533	7.12	149
174	15.674	35.290	2.28	101.7	40.7	15.647	26.052	34.641	42.857	0.585	6.20	173
200	14.543	35.278	1.99	88.9	34.8	14.513	26.294	34.923	43.178	0.635	5.21	199
224	13.938	35.292	1.59	71.0	27.4	13.906	26.433	35.085	43.360	0.677	4.62	223
250	13.383	35.355	1.32	59.0	22.5	13.348	26.598	35.269	43.564	0.718	4.05	249
274	12.669	35.281	1.48	65.8	24.8	12.632	26.685	35.385	43.706	0.753	3.55	273
300	11.808	35.181	1.97	87.9	32.4	11.769	26.775	35.510	43.864	0.789	2.93	299
350	11.322	35.162	1.75	78.1	28.5	11.278	26.851	35.607	43.979	0.854	2.09	349
400	10.639	35.080	1.94	86.5	31.1	10.590	26.912	35.697	44.097	0.917	1.85	399
450	10.505	35.103	1.77	79.0	28.3	10.450	26.955	35.745	44.150	0.977	1.84	449
500	10.564	35.199	1.42	63.2	22.7	10.503	27.020	35.807	44.208	1.036	2.12	499
600	10.208	35.376	0.65	29.1	10.4	10.136	27.222	36.022	44.436	1.144	2.43	599
700	8.974	35.224	0.85	38.0	13.2	8.896	27.311	36.166	44.631	1.237	1.74	699
800	7.904	35.091	1.10	49.0	16.6	7.820	27.373	36.277	44.789	1.324	1.14	799
900	7.673	35.113	1.02	45.4	15.3	7.580	27.425	36.341	44.862	1.407	1.28	899
1000	7.285	35.087	1.06	47.5	15.8	7.184	27.462	36.396	44.935	1.487	1.14	999
1200	6.145	34.974	1.45	64.6	21.0	6.032	27.528	36.518	45.110	1.639	0.85	1198
1204	6.210	34.995	1.45	64.7	21.1	6.096	27.536	36.523	45.112	1.641	---	1202

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	26.228	36.078	4.72	210.7	102.6	26.223	23.779	32.045	39.959	24
48	26.141	36.076	4.62	206.3	100.3	26.130	23.806	32.075	39.991	48
123	20.633	35.534	2.59	115.6	50.9	20.610	25.008	33.433	41.496	123
183	15.456	35.290	2.01	89.7	35.7	15.428	26.101	34.698	42.922	183
249	13.205	35.344	1.17	52.2	19.9	13.170	26.626	35.305	43.605	248
299	11.835	35.185	1.73	77.2	28.5	11.796	26.772	35.507	43.859	298
399	10.640	35.081	1.78	79.5	28.6	10.591	26.913	35.697	44.097	398
599	10.475	35.372	0.70	31.3	11.2	10.402	27.173	35.962	44.365	598
724	8.849	35.211	0.88	39.3	13.6	8.769	27.321	36.181	44.652	723
899	7.745	35.125	0.99	44.2	14.9	7.651	27.424	36.336	44.855	897
1099	7.305	35.142	0.95	42.4	14.2	7.193	27.504	36.437	44.975	1097
1208	6.214	34.999	1.38	61.6	20.0	6.100	27.539	36.526	45.114	---

CDARWIN 19  
DATE: 1/ 6/87

STA: 72

TIME: 2040

LAT: 4° 11.0N

LON: 49° 27.3E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2 SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	26.543	35.972	5.18	231.2	113.1	26.542	23.598	31.857	39.765	0.017	---	4
10	26.546	35.972	5.01	223.8	109.5	26.544	23.598	31.857	39.765	0.043	1.67	10
20	26.547	35.972	5.05	225.4	110.3	26.542	23.598	31.858	39.766	0.086	2.72	20
30	26.551	35.973	5.17	230.6	112.8	26.544	23.599	31.858	39.766	0.129	3.73	30
40	26.552	35.973	5.16	230.3	112.7	26.543	23.599	31.859	39.766	0.172	4.66	40
50	26.551	35.973	5.11	228.2	111.6	26.540	23.600	31.860	39.768	0.215	5.52	50
60	26.534	35.977	5.25	234.3	114.6	26.520	23.609	31.869	39.777	0.258	6.37	60
74	26.385	36.045	5.13	229.0	111.8	26.368	23.708	31.971	39.883	0.318	7.53	74
100	21.905	35.587	3.80	169.7	76.4	21.885	24.698	33.085	41.112	0.416	8.37	100
124	19.055	35.418	2.84	126.7	54.1	19.033	25.333	33.808	41.918	0.486	7.94	124
150	17.884	35.405	2.12	94.7	39.6	17.858	25.619	34.131	42.276	0.551	6.92	149
174	15.845	35.331	1.71	76.3	30.6	15.818	26.045	34.627	42.837	0.606	6.06	173
200	14.662	35.286	1.94	86.7	34.0	14.632	26.274	34.899	43.150	0.655	5.19	199
224	13.958	35.277	2.17	96.9	37.4	13.926	26.418	35.069	43.344	0.697	4.76	223
250	12.963	35.169	2.90	129.5	49.0	12.929	26.539	35.229	43.540	0.739	4.32	249
274	12.682	35.274	1.98	88.6	33.3	12.645	26.677	35.377	43.697	0.775	4.13	273
300	11.289	35.176	1.77	79.1	28.9	11.251	26.867	35.623	43.997	0.808	3.44	299
350	11.029	35.203	1.48	65.8	23.9	10.995	26.937	35.704	44.087	0.870	2.11	349
400	10.668	35.190	1.42	63.4	22.8	10.619	26.993	35.775	44.172	0.928	1.99	399
450	11.225	35.406	0.72	32.3	11.8	11.168	27.062	35.818	44.192	0.985	2.04	449
500	10.908	35.430	0.65	29.1	10.5	10.845	27.139	35.908	44.293	1.039	2.08	499
600	10.151	35.421	0.55	24.6	8.8	10.079	27.268	36.069	44.484	1.108	2.27	599
700	9.016	35.323	0.66	29.3	10.2	8.937	27.382	36.234	44.696	1.225	1.52	699
800	7.917	35.154	0.98	43.8	14.8	7.833	27.420	36.323	44.834	1.307	1.10	799
900	7.369	35.085	1.09	48.6	16.3	7.278	27.447	36.377	44.912	1.386	1.05	899
1000	6.751	35.021	1.23	55.0	18.1	6.654	27.483	36.443	45.007	1.464	1.20	999
1196	6.122	34.963	1.50	67.1	21.8	6.010	27.522	36.513	45.106	1.609	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	26.543	35.967	4.79	213.8	104.6	26.538	23.596	31.855	39.764	24
48	26.541	35.967	4.79	213.8	104.6	26.630	23.598	31.858	39.766	48
79	25.917	36.071	4.63	206.7	100.1	25.899	23.875	32.149	40.071	79
124	19.349	35.436	2.20	98.2	42.2	19.327	25.272	33.737	41.838	123
174	16.677	35.368	1.36	60.7	24.8	16.649	25.881	34.434	42.617	174
249	12.874	35.155	2.57	114.7	43.3	12.840	26.546	35.240	43.554	248
348	10.993	35.201	1.42	63.4	23.0	10.950	26.942	35.710	44.094	347
549	10.700	35.452	0.53	23.7	8.5	10.632	27.195	35.972	44.366	548
798	8.028	35.172	0.88	39.3	13.3	7.944	27.418	36.316	44.821	797
899	7.352	35.079	1.05	46.9	15.7	7.261	27.444	36.375	44.911	897
1098	6.334	34.974	1.42	63.4	20.7	6.230	27.503	36.483	45.066	1097
1200	6.113	34.956	1.49	66.5	21.6	6.000	27.518	36.510	45.104	---

CDARWIN 19  
DATE: 1/7/87

STA: 73

LAT: 2° 30.2N  
TIME: 0727

LON 49° 7.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.732	35.561	4.51	201.5	98.6	26.731	23.228	31.488	39.395	0.028	---	6
10	26.739	35.561	4.55	202.9	99.3	26.737	23.226	31.486	39.393	0.046	4.96	10
20	26.704	35.560	4.49	200.2	98.0	26.699	23.237	31.498	39.406	0.093	5.90	20
30	26.700	35.560	4.46	198.9	97.3	26.693	23.239	31.500	39.408	0.139	6.88	30
40	26.700	35.562	4.49	200.4	98.0	26.691	23.241	31.502	39.410	0.186	7.86	40
50	26.622	35.792	4.54	202.6	99.1	26.611	23.441	31.701	39.609	0.232	8.76	50
60	25.351	35.835	4.34	193.8	92.8	25.338	23.871	32.162	40.099	0.274	9.42	60
74	23.516	35.858	3.61	161.2	74.8	23.501	24.441	32.780	40.762	0.327	10.10	74
100	16.902	35.311	2.48	113.8	45.4	16.886	25.781	34.327	42.503	0.402	9.55	100
124	14.138	35.234	2.90	129.6	50.2	14.120	26.343	34.988	43.256	0.448	7.38	124
150	13.135	35.152	3.57	159.5	60.5	13.114	26.488	35.172	43.477	0.490	4.92	150
174	12.944	35.125	3.61	161.3	60.9	12.920	26.507	35.198	43.510	0.528	3.06	174
200	12.646	35.117	3.24	144.6	54.3	12.619	26.560	35.263	43.587	0.568	2.52	199
224	12.402	35.110	2.92	130.5	48.8	12.372	26.603	35.316	43.649	0.604	2.51	223
250	11.916	35.075	2.99	133.6	49.4	11.883	26.670	35.402	43.753	0.642	2.52	249
274	11.613	35.050	3.05	136.3	50.0	11.578	26.708	35.453	43.816	0.676	2.35	273
300	11.323	35.025	3.13	139.8	51.0	11.285	26.743	35.500	43.874	0.712	2.14	299
350	10.997	35.031	2.57	114.6	41.5	10.954	26.808	35.579	43.965	0.779	1.78	349
400	10.746	35.023	2.51	112.1	40.4	10.697	26.848	35.630	44.026	0.845	2.07	399
450	10.277	35.019	2.18	97.1	34.7	10.223	26.929	35.730	44.145	0.907	2.28	449
500	9.853	35.024	1.86	83.2	29.4	9.795	27.006	35.825	44.257	0.967	2.11	499
600	9.514	35.124	1.47	65.7	23.0	9.445	27.143	35.976	44.420	1.077	1.89	599
700	10.336	35.411	0.64	28.6	10.2	10.251	27.229	36.023	44.432	1.179	1.54	699
800	8.734	35.142	1.04	46.3	16.0	8.645	27.287	36.154	44.630	1.276	1.81	799
900	8.015	35.128	1.00	44.6	15.1	7.920	27.386	36.286	44.794	1.365	1.66	899
1000	7.253	35.059	1.13	50.6	16.9	7.152	27.444	36.380	44.921	1.448	1.28	999
1200	5.579	34.945	1.68	75.1	24.1	5.471	27.576	36.593	45.211	1.597	1.56	1198
1400	4.892	34.807	1.94	86.7	27.3	4.772	27.612	36.666	45.317	1.728	1.06	1398
1600	4.429	34.854	2.22	99.3	30.9	4.295	27.639	36.717	45.391	1.854	0.85	1598
1800	3.522	34.821	2.56	114.3	34.8	3.381	27.706	36.832	45.551	1.970	1.32	1798
2000	2.778	34.780	3.07	137.2	41.0	2.629	27.743	36.909	45.667	2.071	0.93	1998
2500	2.143	34.757	3.35	149.6	44.0	1.960	27.780	36.984	45.775	2.300	0.44	2498
3000	1.848	34.743	3.54	158.1	46.1	1.623	27.795	37.017	45.827	2.518	0.49	2998
3500	1.623	34.730	3.88	173.0	50.2	1.353	27.804	37.042	45.866	2.732	0.44	3497
4000	1.484	34.723	4.05	180.8	52.2	1.165	27.812	37.060	45.894	2.943	0.50	3997
4206	1.354	34.718	4.20	187.3	53.9	1.016	27.818	37.075	45.917	3.028	---	4203

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
297	11.683	35.053	2.84	126.8	46.6	11.645	26.698	35.441	43.800	297
449	10.455	35.023	2.14	95.5	34.2	10.401	26.901	35.694	44.102	448
723	10.371	35.410	0.61	27.2	9.8	10.283	27.224	36.017	44.424	722
1049	5.866	35.028	1.17	52.2	17.3	6.763	27.474	36.428	44.987	1047
1479	4.734	34.873	2.00	89.3	28.0	4.606	27.620	36.682	45.341	1497
1909	2.790	34.779	3.02	134.8	40.3	2.641	27.741	36.907	45.664	1996
2399	2.297	34.760	3.26	145.5	42.9	2.120	27.770	36.964	45.748	2397
2795	2.001	34.749	3.43	153.1	44.8	1.793	27.787	36.994	45.800	2792
3194	1.753	34.737	3.67	163.8	47.7	1.511	27.798	37.027	45.842	3196
3599	1.574	34.727	3.92	175.7	50.7	1.295	27.806	37.047	45.874	3596
3999	1.488	34.723	4.03	179.9	52.0	1.169	27.811	37.059	45.893	3996
4209	1.353	34.718	4.15	185.3	53.3	1.015	27.818	37.075	45.917	

CDARWIN 19  
DATE: 1/7/87

STA: 74

TIME: 1402

LAT: 2° 43.0N

LON: 48° 56.4E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.804	35.549	4.59	204.8	100.4	26.803	23.197	31.455	39.361	0.028	---	6
10	26.810	35.549	4.59	204.8	100.4	26.808	23.195	31.453	39.359	0.047	3.79	10
20	26.812	35.550	4.61	205.8	100.8	26.807	23.196	31.454	39.360	0.094	4.91	20
30	26.816	35.550	4.53	202.1	99.1	26.809	23.195	31.453	39.359	0.140	6.04	30
40	26.808	35.553	4.57	204.0	100.0	26.799	23.201	31.459	39.365	0.187	7.19	40
50	26.733	35.635	4.50	200.8	98.3	26.722	23.287	31.546	39.453	0.234	8.18	50
60	26.441	36.014	4.53	202.1	98.7	26.427	23.666	31.928	39.838	0.278	8.92	60
74	26.091	36.004	4.61	205.6	99.8	26.074	23.770	32.041	39.959	0.337	9.90	74
100	18.678	35.411	2.54	113.3	48.1	18.660	25.423	33.910	42.031	0.424	9.92	100
124	14.985	35.280	2.76	123.2	48.6	14.966	26.196	34.810	43.049	0.473	7.98	124
150	14.421	35.250	2.69	120.3	46.9	14.399	26.297	34.931	43.189	0.519	5.72	150
174	13.130	35.146	3.72	166.0	63.0	13.106	26.486	35.170	43.475	0.560	3.86	173
200	12.656	35.103	3.94	175.9	66.1	12.629	26.547	35.250	43.573	0.601	3.14	199
224	12.373	35.096	3.44	153.8	57.4	12.343	26.598	35.312	43.645	0.637	2.77	223
250	12.239	35.100	3.07	136.9	51.0	12.206	26.628	35.348	43.686	0.675	2.55	249
274	11.592	35.048	3.27	145.8	53.5	11.557	26.710	35.456	43.820	0.709	2.31	273
300	11.403	35.036	3.20	143.0	52.3	11.365	26.738	35.491	43.862	0.745	2.14	299
350	11.443	35.127	2.39	106.6	39.0	11.398	26.802	35.553	43.921	0.813	1.90	349
400	11.330	35.158	1.82	81.0	29.6	11.279	26.848	35.603	43.975	0.879	2.04	399
450	11.046	35.167	1.61	71.9	26.1	10.990	26.908	35.675	44.058	0.942	2.47	449
500	10.158	35.139	1.56	69.8	24.8	10.098	27.044	35.848	44.266	1.001	2.53	499
600	9.222	35.074	1.51	67.4	23.5	9.154	27.151	35.997	44.454	1.108	1.51	599
700	10.003	35.359	0.84	37.5	13.3	9.919	27.246	36.055	44.478	1.209	1.60	699
800	8.714	35.181	0.99	44.2	15.2	8.626	27.320	36.187	44.664	1.304	1.72	799
900	7.808	35.102	1.14	50.9	17.2	7.714	27.397	36.306	44.822	1.393	1.69	899
1000	6.998	35.035	1.26	56.4	18.7	6.899	27.460	36.408	44.961	1.474	1.32	999
1200	6.154	35.005	1.39	61.9	20.1	6.041	27.551	36.540	45.132	1.624	1.66	1198
1400	4.940	34.894	1.98	88.3	27.8	4.819	27.612	36.663	45.312	1.755	0.79	1398
1600	4.490	34.862	2.20	98.0	30.6	4.355	27.638	36.713	45.385	1.881	0.96	1598
1800	3.474	34.822	2.61	116.7	35.5	3.333	27.711	36.840	45.561	1.996	1.21	1798
2000	2.924	34.794	2.85	127.4	38.2	2.773	27.741	36.899	45.649	2.097	1.03	1998
2500	2.191	34.762	3.27	146.2	43.0	2.007	27.780	36.981	45.770	2.327	0.49	2498
3000	1.880	34.747	3.51	156.5	45.7	1.654	27.796	37.016	45.824	2.546	0.44	2997
3500	1.619	34.732	3.83	171.0	49.6	1.350	27.806	37.043	45.868	2.760	0.49	3497
3882	1.535	34.728	3.94	175.8	50.9	1.228	27.811	37.056	45.886	2.921	---	3879

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
111	16.080	35.340	1.69	75.4	30.4	16.062	25.996	34.570	42.772	111
399	11.093	35.130	1.77	79.0	28.7	11.043	26.869	35.635	44.017	398
523	10.318	35.175	1.30	58.0	20.7	10.255	27.045	35.842	44.254	522
749	9.951	35.396	0.57	25.4	9.0	9.862	27.285	36.096	44.521	747
1199	6.313	35.016	1.31	58.5	19.1	6.199	27.540	36.521	45.105	1197
1699	3.904	34.853	2.27	101.3	31.1	3.767	27.693	36.799	45.498	1697
2199	2.493	34.775	3.04	135.7	40.2	2.331	27.764	36.947	45.720	2197
2599	2.126	34.757	3.32	148.2	43.5	1.934	27.782	36.987	45.780	2597
2999	1.882	34.745	3.53	156.3	45.6	1.657	27.794	37.014	45.822	2997
3399	1.643	34.733	3.80	169.6	49.2	1.383	27.804	37.040	45.862	3396
3699	1.545	34.727	3.95	176.3	51.0	1.257	27.809	37.051	45.881	3696
3882	1.535	34.727	3.94	175.9	50.9	1.227	27.811	37.055	45.886	---



CDARWIN 19  
DATE: 1/7/87

STA: 75

TIME: 2016

LAT: 2° 58.8N

LON: 48 41.5E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.675	35.575	4.72	210.9	103.2	26.674	23.257	31.518	39.427	0.028	---	6
10	26.680	35.575	4.72	210.5	103.0	26.678	23.256	31.517	39.425	0.046	4.51	10
20	26.683	35.578	4.70	209.7	102.6	26.678	23.258	31.518	39.427	0.092	5.20	20
30	26.684	35.577	4.62	206.1	100.8	26.677	23.258	31.518	39.427	0.139	5.88	30
40	26.689	35.594	4.49	200.3	98.0	26.680	23.269	31.530	39.439	0.185	6.74	40
50	26.469	35.899	4.06	181.1	88.4	26.458	23.570	31.832	39.743	0.230	7.58	50
60	26.000	36.017	3.72	166.2	80.6	25.987	23.807	32.080	40.000	0.272	8.23	60
74	23.546	35.760	3.13	139.6	64.8	23.531	24.357	32.697	40.679	0.327	9.04	74
100	20.938	35.603	2.19	98.0	43.4	20.919	24.976	33.391	41.445	0.413	9.11	100
124	16.581	35.352	1.60	71.6	29.2	16.561	25.889	34.446	42.632	0.473	8.02	124
150	15.155	35.268	2.34	104.6	41.4	15.132	26.150	34.757	42.991	0.525	6.41	150
174	14.216	35.252	1.87	83.3	32.3	14.191	26.342	34.984	43.250	0.569	5.16	173
200	12.958	35.236	1.85	82.5	31.2	12.931	26.591	35.280	43.590	0.609	3.92	199
224	12.994	35.252	1.76	78.7	29.8	12.963	26.596	35.284	43.593	0.645	3.25	223
250	12.693	35.237	2.05	91.6	34.5	12.659	26.646	35.345	43.665	0.684	2.71	249
274	11.357	35.034	2.84	126.9	46.3	11.322	26.743	35.499	43.871	0.717	2.33	273
300	11.458	35.086	2.43	108.6	39.8	11.420	26.766	35.516	43.884	0.752	1.96	299
350	11.902	35.236	1.43	63.8	23.6	11.856	26.801	35.532	43.882	0.820	1.94	349
400	11.432	35.230	1.40	62.6	22.9	11.381	26.885	35.635	44.003	0.885	2.39	399
450	10.881	35.214	1.34	59.6	21.6	10.825	26.974	35.747	44.136	0.946	2.49	449
500	10.244	35.191	1.25	55.6	19.8	10.184	27.070	35.870	44.284	1.003	2.13	499
600	10.017	35.236	1.01	45.1	16.0	9.946	27.146	35.956	44.379	1.110	1.39	599
700	10.063	35.299	0.85	38.1	13.6	9.979	27.190	35.997	44.418	1.213	1.44	699
800	9.351	35.298	0.76	33.9	11.9	9.259	27.310	36.148	44.598	1.312	1.92	799
900	8.867	35.318	0.68	30.4	10.5	8.766	27.405	36.265	44.734	1.402	1.92	899
1000	7.021	35.064	1.14	51.1	16.9	6.922	27.480	36.427	44.978	1.483	1.65	999
1200	5.907	34.969	1.47	65.5	21.2	5.796	27.554	36.556	45.159	1.629	1.24	1198
1400	4.839	34.876	2.00	89.1	28.0	4.719	27.610	36.666	45.320	1.761	0.85	1398
1600	4.603	34.891	1.95	87.4	27.3	4.467	27.650	36.718	45.384	1.887	1.03	1598
1800	3.296	34.818	2.57	114.8	34.7	3.158	27.725	36.863	45.593	1.999	1.06	1798
2000	2.685	34.777	3.02	134.8	40.2	2.538	27.748	36.920	45.682	2.097	0.85	1998
2500	2.134	34.757	3.32	148.1	43.5	1.951	27.781	36.985	45.777	2.323	0.44	2498
3000	1.848	34.744	3.54	158.1	46.1	1.623	27.796	37.018	45.828	2.541	0.38	2997
3306	1.707	34.737	3.71	165.7	48.2	1.455	27.803	37.034	45.853	2.672	---	3303

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	26.466	35.840	4.82	215.2	105.0	26.455	23.526	31.789	39.701	49
148	15.211	35.270	2.35	104.9	41.6	15.188	26.139	34.745	42.977	147
274	11.353	35.034	2.77	123.7	45.2	11.318	26.744	35.500	43.872	273
598	10.020	35.232	1.01	45.1	16.0	9.949	27.142	35.952	44.375	597
798	9.357	35.289	0.77	34.4	12.0	9.265	27.302	36.140	44.589	797
1098	6.565	35.032	1.22	54.5	17.9	6.459	27.518	36.487	45.059	1097
1599	4.604	34.891	1.95	87.1	27.2	4.468	27.649	36.718	45.383	1597
2097	2.537	34.777	3.04	135.7	40.3	2.383	27.762	36.941	45.711	2095
2599	2.068	34.755	3.35	149.6	43.9	1.877	27.785	36.993	45.789	2596
2998	1.848	34.745	3.53	157.6	46.0	1.623	27.796	37.019	45.828	2996
3399	1.652	34.734	3.79	169.2	49.1	1.392	27.805	37.040	45.862	---
3742	1.543	34.728	3.93	175.4	50.8	1.250	27.810	37.053	45.883	---

CDARWIN 19  
DATE: 1/8/87

STA: 76

TIME: 0241

LAT: 3° 14.2N

LON: 48° 26.8E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	26.565	35.694	4.10	183.0	89.4	26.563	23.382	31.644	39.554	0.036	---	8
10	26.565	35.694	4.09	182.6	89.2	26.563	23.382	31.644	39.555	0.045	4.37	10
20	26.564	35.694	4.05	180.9	88.4	26.559	23.383	31.646	39.556	0.090	5.34	20
30	26.562	35.697	3.90	174.0	85.0	26.555	23.387	31.649	39.559	0.135	6.21	30
40	26.523	35.794	3.70	165.2	80.7	26.514	23.473	31.735	39.646	0.180	6.96	40
50	26.292	35.973	3.63	162.1	79.0	26.281	23.682	31.948	39.862	0.223	7.59	50
60	26.190	36.001	3.49	156.0	75.9	26.176	23.736	32.004	39.920	0.265	8.20	60
74	23.389	35.763	2.72	121.5	56.3	23.374	24.405	32.749	40.736	0.321	9.02	74
100	18.644	35.465	1.46	65.2	27.6	18.626	25.473	33.960	42.081	0.399	8.71	100
124	16.784	35.332	1.37	61.0	24.9	16.764	25.826	34.376	42.556	0.456	7.48	124
150	15.235	35.289	2.11	94.2	37.3	15.212	26.149	34.753	42.984	0.509	5.90	150
174	14.437	35.271	1.54	68.6	26.7	14.411	26.310	34.943	43.201	0.554	4.90	173
200	13.547	35.256	1.48	66.2	25.3	13.519	26.486	35.153	43.442	0.596	4.08	199
224	13.086	35.247	1.46	65.2	24.7	13.055	26.574	35.258	43.564	0.633	3.66	223
250	12.607	35.250	1.42	63.4	23.8	12.573	26.673	35.376	43.699	0.672	3.18	249
274	12.365	35.308	1.23	54.7	20.4	12.328	26.766	35.478	43.809	0.705	2.78	273
300	11.710	35.197	1.64	73.4	27.0	11.671	26.805	35.544	43.901	0.739	1.96	299
350	11.706	35.202	1.60	71.6	26.4	11.661	26.811	35.550	43.908	0.805	0.88	349
400	11.449	35.150	2.00	89.3	32.7	11.398	26.820	35.571	43.938	0.871	1.35	399
450	11.194	35.150	1.78	79.4	26.9	11.137	26.868	35.629	44.007	0.936	1.76	449
500	10.986	35.174	1.44	64.3	23.3	10.923	26.925	35.695	44.081	1.000	2.44	499
600	9.894	35.211	1.09	48.7	17.2	9.823	27.147	35.963	44.391	1.114	1.74	599
700	9.652	35.276	0.77	34.3	12.1	9.570	27.241	36.066	44.503	1.218	1.93	699
800	9.028	35.228	0.81	36.0	12.5	8.938	27.307	36.160	44.624	1.314	2.05	799
900	8.550	35.254	0.77	34.2	11.8	8.451	27.405	36.279	44.762	1.402	1.79	899
1000	7.595	35.179	0.90	40.2	13.5	7.491	27.490	36.408	44.933	1.482	1.47	999
1200	6.118	34.982	1.40	62.7	20.4	6.005	27.538	36.529	45.122	1.631	1.20	1198
1400	4.893	34.879	1.98	88.4	27.8	4.773	27.606	36.659	45.311	1.767	1.03	1398
1600	4.528	34.868	2.11	94.0	29.3	4.393	27.639	36.712	45.382	1.892	0.73	1598
1800	3.621	34.831	2.43	108.4	33.1	3.478	27.705	36.825	45.540	2.010	1.43	1798
2000	2.692	34.786	2.93	130.8	39.0	2.545	27.755	36.926	45.687	2.110	0.91	1998
2500	2.124	34.759	3.29	147.0	43.2	1.941	27.783	36.987	45.780	2.334	0.49	2498
3000	1.820	34.744	3.57	159.3	46.4	1.596	27.798	37.021	45.832	2.551	0.44	2997
3474	1.600	34.733	3.88	173.3	50.2	1.334	27.808	37.046	45.871	2.752	---	3471

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
298	11.714	35.197	1.63	72.8	26.8	11.675	26.804	35.543	43.900	297
599	9.899	35.210	1.08	48.2	17.1	9.828	27.146	35.961	44.389	598
661	9.754	35.179	1.18	52.7	18.6	9.676	27.147	35.969	44.403	660
723	9.820	35.331	0.74	33.0	11.7	9.734	27.256	36.073	44.503	722
789	8.978	35.209	0.88	39.3	13.6	8.889	27.300	36.155	44.621	788
821	9.467	35.368	0.59	26.3	9.3	9.371	27.346	36.178	44.622	820
1199	6.119	34.983	1.38	61.6	20.0	6.006	27.539	36.530	45.123	1197
1674	4.440	34.877	2.05	91.5	28.5	4.298	27.657	36.734	45.408	1672
1999	2.689	34.787	2.95	131.7	39.3	2.542	27.756	36.927	45.689	1997
2499	2.124	34.759	3.30	147.3	43.3	1.941	27.783	36.988	45.780	-
2997	1.819	34.743	3.55	158.5	46.2	1.595	27.797	37.021	45.832	-
3489	1.600	34.732	3.86	172.3	49.9	1.332	27.807	37.046	45.871	---

CDARWIN 19  
DATE: 1/8/87

STA: 77

TIME: 0848

LAT: 3° 31.1N

LON: 48° 9' 8E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.322	35.953	4.76	212.4	103.5	26.321	23.654	31.919	39.832	0.025	---	6
10	26.318	35.954	4.86	216.9	105.7	26.316	23.656	31.921	39.835	0.042	3.05	10
20	26.316	35.954	4.72	210.7	102.7	26.312	23.657	31.923	39.836	0.085	3.97	20
30	26.299	35.953	4.72	210.8	102.7	26.292	23.663	31.929	39.842	0.127	4.75	30
40	26.271	35.952	4.66	208.1	101.3	26.262	23.671	31.938	39.853	0.169	5.43	40
50	26.172	35.979	4.63	206.8	100.5	26.161	23.724	31.993	39.909	0.212	6.08	50
60	26.133	36.076	4.60	205.5	99.9	26.119	23.810	32.079	39.995	0.253	6.68	60
74	26.348	35.983	4.17	186.0	89.2	26.332	23.985	32.274	40.210	0.310	7.58	74
100	20.550	35.479	2.99	133.5	58.6	20.541	24.984	33.412	41.478	0.397	7.82	100
124	19.209	35.458	2.40	107.1	45.9	19.187	25.324	33.794	41.898	0.464	7.34	124
150	17.741	35.403	1.74	77.9	32.4	17.716	25.652	34.169	42.319	0.530	6.55	149
174	15.609	35.296	2.10	93.7	37.4	15.582	26.071	34.662	42.881	0.582	5.83	173
200	14.608	35.282	1.85	82.5	32.3	14.578	26.283	34.910	43.162	0.631	5.03	199
224	14.095	35.262	2.17	97.1	37.6	14.062	26.377	35.024	43.294	0.673	4.48	223
250	13.092	35.240	1.75	77.9	29.6	13.057	26.568	35.252	43.558	0.715	4.03	249
274	12.496	35.226	1.68	75.1	28.1	12.459	26.676	35.384	43.712	0.751	3.61	273
300	12.034	35.245	1.60	71.4	26.5	11.994	26.781	35.507	43.851	0.787	2.84	299
350	11.745	35.208	1.64	73.3	27.0	11.700	26.809	35.547	43.902	0.853	1.70	349
400	11.246	35.160	1.88	84.0	30.6	11.195	26.865	35.624	44.000	0.919	1.96	399
450	11.016	35.163	1.70	75.7	27.5	10.960	26.910	35.678	44.063	0.982	2.12	449
500	10.665	35.170	1.55	69.1	24.9	10.604	26.979	35.763	44.161	1.042	2.16	499
600	10.268	35.266	1.11	49.4	17.7	10.196	27.126	35.925	44.338	1.155	1.60	599
700	9.185	35.073	1.52	68.1	23.7	9.106	27.159	36.007	44.466	1.262	2.27	699
800	9.511	35.349	0.70	31.5	11.1	9.418	27.324	36.154	44.596	1.359	1.42	799
900	8.600	35.266	0.81	36.0	12.4	8.501	27.407	36.278	44.759	1.448	1.63	899
1000	7.932	35.177	0.90	40.2	13.6	7.826	27.439	36.342	44.853	1.532	1.42	998
1200	6.812	35.100	1.11	49.6	16.4	6.693	27.540	36.497	45.058	1.688	1.26	1198
1400	5.246	34.911	1.88	84.1	26.7	5.122	27.590	36.626	45.260	1.830	1.37	1398
1600	4.330	34.876	2.18	97.2	30.2	4.197	27.667	36.750	45.428	1.955	1.21	1598
1800	3.255	34.813	2.74	122.2	37.0	3.117	27.725	36.865	45.598	2.065	1.17	1798
2000	2.757	34.792	2.98	132.9	39.7	2.609	27.754	36.921	45.679	2.163	0.79	1998
2500	2.138	34.760	3.34	149.2	43.9	1.955	27.783	36.987	45.779	2.390	0.49	2498
3000	1.816	34.744	3.57	159.6	46.5	1.592	27.798	37.022	45.833	2.605	0.31	2997
3116	1.756	34.741	3.63	162.0	47.1	1.522	27.801	37.029	45.844	2.654	---	3113

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
349	11.742	35.199	1.57	70.1	25.8	11.697	26.802	35.540	43.896	348
419	11.032	35.156	1.67	74.6	27.1	10.980	26.901	35.669	44.053	418
623	10.257	35.264	0.99	44.2	15.8	10.182	27.127	35.926	44.340	622
688	9.227	35.084	1.39	62.1	21.6	9.149	27.160	36.006	44.463	686
847	9.192	35.347	0.65	29.0	10.1	9.095	27.375	36.219	44.675	846
1149	6.762	35.045	1.18	52.7	17.4	6.649	27.503	36.463	45.026	1147
1499	4.853	34.899	1.92	85.7	27.0	4.723	27.627	36.683	45.336	1497
1899	2.994	34.800	2.77	123.7	37.1	2.851	27.739	36.893	45.639	1897
2199	2.438	34.770	3.11	138.8	41.1	2.277	27.765	36.951	45.726	2197
2499	2.128	34.760	3.29	146.9	43.2	1.945	27.784	36.988	45.780	2496
2799	1.904	34.748	3.48	155.4	45.4	1.697	27.793	37.011	45.817	2797
3116	1.756	34.741	3.61	161.2	46.9	1.522	27.801	37.029	45.844	---

CDARWIN 19  
DATE: 1/8/87

STA: 78

TIME: 1428

LAT: 3 44.3N

LON: 48 0 TE

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.226	36.100	4.83	215.6	105.0	26.226	23.795	32.061	39.975	0.025	---	6
10	26.234	36.100	4.91	219.2	106.7	26.232	23.793	32.059	39.972	0.041	0.54	10
20	26.236	36.101	4.84	216.2	105.3	26.232	23.794	32.060	39.973	0.082	0.69	20
30	26.229	36.104	4.78	213.2	103.8	26.222	23.799	32.065	39.979	0.123	1.49	30
40	26.225	36.105	4.77	212.8	103.6	26.216	23.802	32.068	39.982	0.164	2.55	40
50	26.216	36.106	4.77	212.9	103.6	26.205	23.806	32.072	39.987	0.205	3.75	50
60	26.209	36.107	4.75	212.1	103.2	26.196	23.810	32.076	39.991	0.246	4.89	60
74	26.208	36.107	4.75	212.2	103.3	26.191	23.811	32.078	39.992	0.304	6.39	74
100	25.274	35.991	4.55	203.0	97.2	25.252	24.015	32.306	40.244	0.410	8.72	100
124	19.448	35.448	2.76	123.2	53.0	19.425	25.255	33.717	41.815	0.490	9.15	124
150	15.736	35.310	2.05	91.4	36.6	15.712	26.053	34.639	42.853	0.552	7.97	149
174	14.438	35.291	1.85	82.6	32.2	14.412	26.325	34.958	43.216	0.596	6.11	173
200	13.966	35.276	1.96	87.6	33.9	13.937	26.415	35.066	43.340	0.640	4.20	199
224	13.785	35.262	2.04	91.2	35.1	13.753	26.442	35.100	43.381	0.680	3.45	223
250	12.999	35.252	1.82	81.3	30.8	12.964	26.596	35.284	43.593	0.720	3.19	249
274	12.757	35.244	1.78	79.4	29.9	12.720	26.639	35.336	43.654	0.756	3.02	273
300	12.116	35.220	1.77	78.9	29.3	12.076	26.746	35.469	43.810	0.792	2.45	299
350	11.958	35.211	1.75	78.3	29.0	11.912	26.771	35.500	43.848	0.860	2.15	349
400	11.006	35.158	1.82	81.2	29.5	10.956	26.907	35.676	44.061	0.926	2.47	399
450	10.752	35.166	1.58	70.7	25.5	10.697	26.960	35.739	44.133	0.988	2.44	449
500	10.368	35.215	1.31	58.3	20.9	10.308	27.067	35.862	44.270	1.045	2.07	499
600	10.230	35.230	1.15	51.5	18.4	10.158	27.104	35.905	44.320	1.154	1.18	599
700	9.512	35.285	0.97	43.2	15.2	9.431	27.271	36.102	44.545	1.259	2.56	699
800	8.911	35.272	0.81	36.3	12.6	8.821	27.360	36.218	44.686	1.350	1.26	799
900	8.306	35.217	0.87	38.7	13.2	8.209	27.413	36.299	44.793	1.436	1.67	899
1000	7.566	35.151	0.98	43.6	14.7	7.463	27.472	36.392	44.918	1.517	1.16	999
1200	6.503	35.014	1.32	58.8	19.3	6.387	27.513	36.486	45.061	1.671	0.96	1198
1400	5.311	34.923	1.79	80.0	25.5	5.186	27.593	36.625	45.256	1.814	1.39	1398
1600	4.274	34.881	2.08	93.0	28.8	4.142	27.676	36.762	45.443	1.938	1.08	1598
1800	3.476	34.828	2.54	113.3	34.5	3.335	27.716	36.844	45.566	2.049	1.14	1798
2000	2.687	34.778	3.04	135.8	40.5	2.540	27.749	36.920	45.682	2.148	0.70	1998
2500	2.089	34.754	3.37	150.6	44.2	1.907	27.782	36.989	45.783	2.373	0.31	2498
2524	2.068	34.754	3.37	150.4	44.1	1.884	27.784	36.992	45.787	2.383	---	2522

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
149	15.569	35.313	1.59	71.0	28.3	15.546	26.093	34.685	42.904	149
350	11.915	35.198	1.70	75.9	28.1	11.869	26.768	35.500	43.849	349
554	10.402	35.248	1.14	50.9	18.2	10.335	27.088	35.881	44.289	552
659	9.851	35.157	1.23	54.9	19.4	9.773	27.114	35.932	44.362	658
758	9.305	35.330	0.68	30.4	10.6	9.218	27.342	36.181	44.632	757
849	8.739	35.259	0.75	33.5	11.6	8.645	27.378	36.244	44.719	848
924	8.357	35.243	0.76	33.9	11.6	8.256	27.426	36.309	44.800	923
1198	6.586	35.019	1.24	55.4	18.2	6.469	27.507	36.475	45.047	1197
1598	4.242	34.885	2.01	89.7	27.8	4.110	27.683	36.770	45.453	1596
1999	2.664	34.777	2.99	133.5	39.8	2.517	27.750	36.923	45.686	1997
2300	2.246	34.763	3.23	144.2	42.5	2.079	27.775	36.972	45.758	2297
2528	2.066	34.754	3.38	150.9	44.3	1.881	27.784	36.992	45.788	---

CDARWIN 19  
DATE: 1/8/87

STA: 79

TIME: 1820

LAT: 3° 52.1N

LON: 47° 51.7E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.288	35.807	4.84	216.0	105.1	26.287	23.555	31.822	39.738	0.026	---	6
10	26.291	35.808	4.76	212.6	103.4	26.289	23.556	31.822	39.738	0.043	2.40	10
20	26.288	35.807	4.78	213.5	103.9	26.284	23.556	31.823	39.739	0.087	2.74	20
30	26.302	35.815	4.81	214.9	104.6	26.295	23.558	31.825	39.740	0.130	3.08	30
40	26.310	35.865	4.87	217.4	105.9	26.301	23.594	31.861	39.775	0.173	3.53	40
50	26.292	35.975	4.98	222.3	108.3	26.281	23.683	31.949	39.863	0.216	4.40	50
60	26.275	36.068	5.06	225.9	110.1	26.261	23.759	32.024	39.938	0.258	5.41	60
74	26.000	36.069	4.97	221.8	107.6	25.983	23.847	32.119	40.039	0.316	6.79	74
100	25.177	35.946	4.60	205.5	98.2	25.155	24.011	32.305	40.246	0.420	8.61	100
124	19.744	35.475	3.29	146.3	63.3	19.721	25.199	33.651	41.740	0.505	9.13	124
150	16.257	35.357	1.96	87.5	35.4	16.233	25.969	34.537	42.734	0.566	7.88	149
174	14.946	35.320	1.80	80.3	31.7	14.920	26.237	34.852	43.092	0.612	6.32	173
200	14.707	35.313	1.84	82.2	32.2	14.677	26.285	34.908	43.157	0.659	4.68	199
224	13.421	35.269	1.77	79.1	30.2	13.389	26.523	35.194	43.488	0.699	4.03	223
250	12.807	35.261	1.53	68.5	25.8	12.773	26.642	35.337	43.652	0.738	3.22	249
274	12.622	35.251	1.53	68.5	25.7	12.585	26.671	35.374	43.696	0.773	2.44	273
300	12.489	35.238	1.58	70.5	26.4	12.449	26.687	35.395	43.723	0.810	1.50	299
350	12.334	35.221	1.71	76.3	28.5	12.287	26.706	35.420	43.754	0.881	1.94	349
400	11.699	35.230	1.50	66.9	24.6	11.647	26.835	35.575	43.933	0.951	2.96	399
450	10.717	35.159	1.46	65.2	23.5	10.662	26.960	35.741	44.137	1.013	2.56	449
500	10.333	35.182	1.29	57.6	20.6	10.273	27.047	35.844	44.255	1.071	1.76	499
550	10.388	35.210	1.24	55.5	19.9	10.321	27.061	35.855	44.263	1.127	---	549

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	26.289	35.807	5.04	225.0	109.5	26.285	23.555	31.823	39.738	19
39	26.312	35.858	4.90	218.8	106.5	26.303	23.588	31.854	39.769	38
69	26.201	36.079	4.87	217.4	105.8	26.185	23.791	32.059	39.974	69
124	19.653	35.473	2.29	102.2	44.2	19.630	25.221	33.676	41.768	123
214	13.721	35.260	1.91	85.3	32.8	13.690	26.454	35.114	43.397	213
249	12.805	35.263	1.51	67.4	25.4	12.771	26.643	35.338	43.654	248
299	12.495	35.236	1.60	71.4	26.8	12.455	26.685	35.393	43.720	298
349	12.333	35.220	1.73	77.2	28.8	12.286	26.705	35.420	43.754	348
399	11.702	35.229	1.50	67.0	24.7	11.650	26.834	35.574	43.931	398
449	10.731	35.158	1.49	66.5	24.0	10.676	26.958	35.738	44.133	448
499	10.332	35.189	1.26	56.3	20.1	10.272	27.053	35.849	44.260	498
558	10.388	35.208	1.24	55.4	19.8	10.320	27.059	35.854	44.262	---

CDARWIN 19  
DATE: 1/8/87

STA: 80

TIME: 2126

LAT: 3° 36.0N

LON: 48° 3.1E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.085	36.076	4.93	220.2	108.9	26.083	23.821	32.091	40.008	0.033	---	8
10	26.088	36.076	4.95	221.2	107.4	26.086	23.820	32.090	40.007	0.041	1.86	10
20	26.085	36.075	4.99	222.5	108.1	26.081	23.821	32.091	40.008	0.082	2.92	20
30	26.087	36.075	4.96	221.3	107.5	26.080	23.821	32.091	40.008	0.122	3.93	30
40	26.097	36.076	4.92	219.6	106.7	26.088	23.820	32.089	40.006	0.163	4.77	40
50	26.108	36.083	5.04	225.0	109.3	26.097	23.822	32.091	40.008	0.204	5.65	50
60	26.122	36.096	4.95	221.1	107.5	26.108	23.829	32.097	40.014	0.245	6.56	60
74	25.828	36.114	4.74	211.4	102.3	25.812	23.935	32.211	40.134	0.302	7.81	74
100	20.587	35.543	3.29	146.9	64.6	20.568	25.026	33.452	41.516	0.394	8.79	100
124	17.575	35.402	1.79	80.0	33.2	17.554	25.691	34.213	42.368	0.458	8.19	124
150	15.183	35.293	1.81	80.8	32.0	15.160	26.164	34.770	43.002	0.512	6.18	150
174	14.563	35.293	2.00	89.1	34.8	14.537	26.300	34.928	43.182	0.555	4.48	173
196	13.827	35.240	1.93	86.2	33.2	13.799	26.416	35.072	43.352	0.593	---	195

CDARWIN 19  
DATE: 1/9/87

STA: 81

TIME: 0539

LAT: 3° 26.0N

LON: 47° 55.4E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.044	36.087	5.07	226.2	109.8	26.043	23.842	32.113	40.031	0.000	---	6
10	26.041	36.087	4.95	221.0	107.2	26.039	23.844	32.114	40.032	0.016	0.00	10
20	26.044	36.088	4.90	218.8	106.2	26.039	23.844	32.115	40.033	0.057	1.12	20
30	26.042	36.088	4.95	221.1	107.3	26.035	23.845	32.116	40.035	0.097	2.63	30
40	26.042	36.088	4.97	222.1	107.8	26.033	23.846	32.117	40.035	0.138	3.83	40
50	26.044	36.088	4.95	220.8	107.2	26.033	23.846	32.117	40.035	0.179	5.01	50
60	26.045	36.088	5.02	223.9	108.7	26.031	23.847	32.117	40.036	0.219	6.21	60
74	26.048	36.088	5.07	226.4	109.9	26.031	23.847	32.118	40.036	0.276	7.70	74
100	22.040	35.602	3.61	161.0	72.7	22.020	24.671	33.055	41.078	0.378	9.42	100
124	16.600	35.351	1.76	78.8	32.1	16.580	25.884	34.440	42.625	0.444	8.90	124
150	14.470	35.294	1.94	86.7	33.8	14.448	26.320	34.952	43.208	0.493	6.59	150
174	13.988	35.279	1.83	81.7	31.6	13.963	26.411	35.061	43.334	0.533	4.47	173
196	13.869	35.264	1.95	87.2	33.6	13.841	26.425	35.080	43.357	0.570	---	195

CDARWIN 19  
DATE: 1/9/87

STA: 82

TIME: 0939

LAT: 3° 20.9N

LON: 47° 51.8E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.100	36.088	5.16	230.3	111.9	26.099	23.825	32.095	40.011	0.000	---	6
10	26.094	36.087	5.17	230.9	112.2	26.092	23.827	32.096	40.013	0.016	1.96	10
20	26.098	36.088	5.22	233.3	113.3	26.094	23.827	32.096	40.013	0.057	3.19	20
30	26.086	36.088	5.29	236.3	114.8	26.079	23.832	32.101	40.019	0.098	4.23	30
40	26.052	36.089	5.27	236.4	114.3	26.043	23.844	32.114	40.032	0.138	5.09	40
50	26.041	36.088	5.25	234.5	113.8	26.030	23.847	32.118	40.037	0.179	5.95	50
60	26.029	36.090	5.21	232.8	112.9	26.016	23.853	32.124	40.043	0.220	6.88	60
74	25.920	36.083	4.94	220.6	106.9	25.904	23.883	32.157	40.078	0.277	8.16	74
100	20.035	35.505	3.10	138.3	60.2	20.017	25.144	33.588	41.668	0.365	8.88	100
124	16.818	35.366	1.76	78.7	32.2	16.798	25.844	34.392	42.571	0.426	8.14	124
150	14.726	35.282	1.98	88.4	34.7	14.704	26.255	34.878	43.126	0.477	6.01	150
174	14.166	35.293	1.67	74.8	29.0	14.141	26.384	35.027	43.295	0.519	4.31	173
198	13.741	35.257	1.97	87.7	33.7	13.713	26.447	35.107	43.389	0.559	---	197



CDARWIN 19  
DATE: 1/9/87

STA: 83

TIME: 1507

LAT: 3° 13.4N

LON: 47° 46.2E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.313	35.974	4.96	221.3	107.8	26.312	23.673	31.938	39.851	0.000	---	6
10	26.316	35.973	4.88	218.0	106.2	26.314	23.671	31.936	39.849	0.017	2.46	10
20	26.323	35.973	4.93	220.3	107.4	26.319	23.670	31.935	39.848	0.059	3.78	20
30	26.322	35.976	4.93	219.9	107.2	26.315	23.673	31.938	39.851	0.101	4.62	30
40	26.229	36.027	4.95	220.9	107.5	26.220	23.741	32.008	39.923	0.143	5.83	40
50	26.112	36.075	4.94	220.6	107.2	26.101	23.815	32.084	40.001	0.185	6.76	50
60	26.040	36.085	4.84	215.9	104.8	26.027	23.846	32.117	40.035	0.226	7.61	60
74	26.018	36.093	4.84	216.1	104.8	26.001	23.860	32.131	40.051	0.283	8.79	74
100	19.693	35.468	2.77	123.8	53.5	19.675	25.206	33.660	41.750	0.371	9.27	100
124	15.323	35.284	2.36	105.3	41.8	15.304	26.124	34.726	42.953	0.426	7.98	124
150	14.537	35.287	2.05	91.3	35.7	14.515	26.300	34.929	43.184	0.473	5.59	150
174	14.044	35.283	1.71	76.1	29.5	14.019	26.402	35.050	43.321	0.514	3.74	173
196	13.633	35.254	1.82	81.0	31.1	13.605	26.466	35.130	43.416	0.550	---	195

CDARWIN 19  
DATE: 1/9/87

STA: 84

TIME: 1846

LAT: 3° 8.0N

LON: 47° 43.1E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.358	35.935	4.98	222.4	108.4	26.357	23.628	31.893	39.806	0.000	---	6
10	26.359	35.935	4.85	216.4	105.5	26.357	23.628	31.893	39.806	0.017	3.35	10
20	26.364	35.938	4.75	212.0	103.4	26.360	23.630	31.894	39.807	0.060	4.36	20
30	26.359	35.940	4.73	211.2	102.9	26.352	23.634	31.899	39.811	0.102	5.22	30
40	26.244	36.000	4.77	213.0	103.7	26.235	23.716	31.983	39.897	0.145	6.08	40
50	26.145	36.061	5.02	224.2	109.0	26.134	23.794	32.062	39.979	0.186	6.91	50
60	26.038	36.085	4.92	219.5	106.5	26.025	23.846	32.118	40.036	0.227	7.66	60
74	25.590	36.074	4.92	219.5	105.7	25.574	23.979	32.261	40.191	0.284	8.78	74
100	19.584	35.442	2.90	129.6	55.9	19.566	25.214	33.672	41.766	0.367	8.95	100
124	15.996	35.328	1.78	79.3	31.9	15.976	26.006	34.583	42.788	0.424	7.74	124
150	14.506	35.274	2.07	92.5	36.1	14.484	26.296	34.927	43.183	0.474	5.53	150
174	14.347	35.288	1.81	80.7	31.4	14.321	26.342	34.979	43.240	0.516	3.92	173
194	13.638	35.249	1.91	85.4	32.8	13.610	26.461	35.125	43.411	0.549	---	193

CDARWIN 19  
DATE: 1/10/87

STA: 86

TIME: 0111

LAT: 2° 35.9N

LON: 46° 27' 9E

SONIC DEPTH: 760 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.157	35.693	4.94	220.6	107.0	26.155	23.509	31.782	39.701	0.035	---	8
10	26.158	35.693	4.92	219.7	106.6	26.156	23.509	31.781	39.701	0.044	2.42	10
20	26.159	35.691	4.94	220.5	107.0	26.155	23.508	31.780	39.700	0.088	2.68	20
30	26.183	35.713	4.89	218.3	106.0	26.176	23.518	31.790	39.709	0.131	2.94	30
40	26.209	35.755	4.93	220.2	107.0	26.200	23.542	31.813	39.731	0.175	3.42	40
50	26.223	35.840	4.93	220.0	106.9	26.212	23.603	31.872	39.789	0.218	4.52	50
60	26.169	35.938	4.91	219.0	106.4	26.155	23.695	31.964	39.881	0.261	5.67	60
74	25.810	35.947	4.80	214.2	103.4	25.793	23.814	32.093	40.018	0.319	7.03	74
100	25.437	35.897	4.67	208.6	100.1	25.415	23.894	32.183	40.118	0.425	8.92	100
124	18.549	35.456	3.96	176.9	74.9	18.527	25.491	33.981	42.105	0.510	9.36	124
150	16.047	35.336	1.62	72.3	29.1	16.023	26.002	34.577	42.781	0.567	7.86	150
174	14.842	35.312	2.32	103.4	40.7	14.816	26.254	34.872	43.116	0.613	6.18	173
200	13.873	35.212	1.87	83.5	32.2	13.844	26.384	35.040	43.318	0.659	4.35	199
224	12.741	35.117	2.90	129.5	48.7	12.710	26.542	35.241	43.561	0.698	3.63	223
250	12.575	35.093	3.20	143.0	53.4	12.342	26.596	35.310	43.644	0.738	2.84	249
274	12.123	35.077	2.81	125.3	46.5	12.087	26.633	35.357	43.700	0.773	2.33	273
300	12.004	35.074	2.73	121.7	45.1	11.965	26.654	35.383	43.731	0.811	2.17	299
350	11.319	35.032	2.74	122.3	44.6	11.275	26.751	35.508	43.882	0.882	2.24	349
400	11.006	35.020	2.42	108.3	39.2	10.956	26.800	35.570	43.957	0.950	1.93	399
450	10.599	34.998	2.55	113.9	40.9	10.544	26.856	35.644	44.047	1.015	2.21	449
500	9.798	34.937	2.64	118.0	41.6	9.740	26.947	35.770	44.205	1.078	2.18	499
600	9.297	34.916	2.61	116.5	40.6	9.229	27.016	35.860	44.316	1.195	1.32	599
700	9.398	35.054	1.74	77.8	27.2	9.318	27.109	35.948	44.399	1.309	1.72	699
750	9.322	35.118	1.49	66.7	23.3	9.236	27.173	36.014	44.467	1.363	---	749

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	26.174	35.696	4.96	221.0	107.2	26.169	23.508	31.779	39.699	24
79	25.676	35.940	4.53	202.2	97.5	25.659	23.851	32.133	40.062	78
154	15.866	35.312	2.17	96.9	38.2	15.842	26.025	34.606	42.816	154
250	12.361	35.093	3.02	134.8	50.3	12.328	26.599	35.313	43.647	249
399	11.003	35.021	2.61	116.5	42.2	10.953	26.801	35.571	43.958	398
449	10.587	34.996	2.56	114.3	41.0	10.532	26.857	35.645	44.048	448
499	9.807	34.937	2.71	121.0	42.7	9.749	26.946	35.768	44.203	498
548	9.374	34.912	2.61	116.5	40.7	9.312	26.999	35.840	44.293	547
597	9.300	34.910	2.59	115.6	40.3	9.232	27.010	35.855	44.311	595
649	9.454	35.007	2.07	92.4	32.4	9.380	27.062	35.899	44.348	648
699	9.379	35.052	1.79	79.9	28.0	9.299	27.111	35.951	44.402	697
751	9.296	35.109	1.39	62.1	21.7	9.210	27.170	36.013	44.467	---

COARWIN 19  
DATE: 1/10/87

STA: 86

TIME: 0440

LAT: 2° 28.0N

LON: 46° 34.6E

SONIC DEPTH: 2271 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.185	35.995	4.98	222.5	108.2	26.184	23.729	31.997	39.913	0.025	---	8
10	26.186	35.995	5.02	224.3	109.1	26.184	23.729	31.997	39.913	0.042	1.49	10
20	26.185	35.996	5.02	224.0	108.9	26.180	23.731	31.999	39.915	0.083	1.88	20
30	26.190	35.998	5.01	223.7	108.8	26.183	23.731	31.999	39.915	0.125	2.34	30
40	26.189	35.998	4.97	222.1	108.0	26.180	23.732	32.000	39.916	0.167	3.28	40
50	26.188	35.998	4.93	220.0	107.0	26.177	23.733	32.001	39.917	0.208	4.55	50
60	26.131	35.989	4.95	220.9	107.3	26.118	23.745	32.015	39.933	0.250	5.78	60
74	25.654	35.934	4.72	210.6	101.4	25.638	23.853	32.135	40.064	0.308	7.21	74
100	24.501	35.771	4.43	198.0	93.4	24.480	24.084	32.398	40.357	0.411	9.04	100
124	17.970	35.389	2.23	99.4	41.6	17.949	25.584	34.094	42.236	0.488	9.20	124
150	15.464	35.306	2.20	98.1	39.1	15.441	26.111	34.707	42.930	0.542	7.65	149
174	14.245	35.230	2.91	129.8	50.4	14.220	26.319	34.960	43.226	0.586	5.89	173
200	12.902	35.128	3.45	154.1	58.2	12.875	26.518	35.211	43.526	0.628	4.02	199
224	12.537	35.113	3.43	153.2	57.4	12.507	26.579	35.287	43.514	0.665	3.13	223
250	12.053	35.073	3.34	148.9	55.2	12.020	26.643	35.370	43.716	0.703	2.37	249
274	11.854	35.051	3.54	158.2	58.4	11.818	26.664	35.400	43.753	0.738	2.10	273
300	11.741	35.042	3.53	157.5	58.0	11.702	26.679	35.419	43.777	0.775	2.16	299
350	10.989	35.012	2.87	128.2	46.4	10.946	26.795	35.566	43.953	0.844	2.21	349
400	10.791	35.010	2.78	124.0	44.7	10.742	26.830	35.610	44.005	0.910	2.27	399
450	10.138	35.026	2.03	90.4	32.2	10.085	26.958	35.765	44.185	0.973	2.32	449
500	9.918	35.021	1.84	82.1	29.1	9.859	26.993	35.809	44.239	1.032	1.77	499
600	9.303	34.986	1.91	85.4	29.8	9.235	27.069	35.913	44.367	1.145	1.47	599
700	8.982	35.061	1.36	60.5	21.0	8.904	27.182	36.038	44.506	1.252	1.82	699
800	9.253	35.252	0.90	40.1	14.0	9.161	27.290	36.133	44.587	1.351	2.07	799
900	7.487	35.067	1.11	49.7	16.7	7.395	27.416	36.341	44.871	1.439	1.70	899
1000	6.987	35.007	1.26	56.4	18.7	6.888	27.441	36.389	44.943	1.519	0.82	999
1200	5.979	34.959	1.55	69.2	22.4	5.868	27.537	36.535	45.135	1.673	1.34	1198
1400	4.940	34.888	1.96	87.4	27.6	4.819	27.608	36.659	45.308	1.808	0.88	1398
1600	4.671	34.895	1.99	88.9	27.8	4.534	27.646	36.711	45.373	1.934	0.88	1598
1800	3.421	34.831	2.53	112.9	34.3	3.281	27.724	36.855	45.579	2.049	1.28	1798
2000	2.830	34.796	2.89	128.9	38.6	2.680	27.751	36.915	45.669	2.148	0.96	1998
2300	2.208	34.766	3.30	147.3	43.4	2.042	27.781	36.980	45.767	2.285	---	2298

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	26.210	35.998	4.72	210.7	102.5	26.205	23.724	31.992	39.907	23
74	25.223	35.908	4.28	191.1	91.4	25.207	23.966	32.260	40.200	73
93	24.869	35.859	4.08	182.1	86.5	24.849	24.038	32.342	40.291	93
299	11.786	35.052	3.15	140.6	51.8	11.747	26.678	35.416	43.772	299
549	9.692	35.017	1.66	74.1	26.1	9.628	27.029	35.855	44.293	547
629	9.243	34.976	1.95	87.1	30.3	9.172	27.072	35.918	44.376	627
774	9.740	35.348	0.69	30.8	10.9	9.649	27.284	36.105	44.538	773
998	6.990	35.007	1.22	54.5	18.0	6.891	27.440	36.388	44.942	997
1114	6.668	35.032	1.22	54.5	17.9	6.560	27.505	36.469	45.036	1112
1474	4.801	34.884	1.98	88.4	27.8	4.674	27.621	36.679	45.335	1472
1799	3.536	34.837	2.42	108.0	32.9	3.395	27.718	36.842	45.561	1796
2302	2.200	34.763	3.22	143.8	42.3	2.034	27.779	36.978	45.766	---

CDARWIN 19  
DATE: 1/10/87

STA: 87

TIME: 0830

LAT: 2° 13.3N

LON: 46° 42.2E

SONIC DEPTH: 2826 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.412	35.923	4.59	205.0	100.0	26.411	23.602	31.866	39.777	0.026	---	6
10	26.414	35.924	4.50	200.9	98.0	26.412	23.603	31.866	39.777	0.043	2.32	10
20	26.391	35.923	4.56	203.5	99.2	26.386	23.610	31.874	39.786	0.086	3.08	20
30	26.333	35.926	4.55	203.1	99.0	26.326	23.631	31.897	39.810	0.128	3.83	30
40	26.312	35.944	4.62	206.1	100.4	26.303	23.652	31.918	39.832	0.171	4.74	40
50	26.242	36.027	4.66	208.2	101.3	26.231	23.738	32.004	39.919	0.213	5.76	50
60	26.201	36.072	4.66	208.3	101.3	26.188	23.785	32.052	39.967	0.255	6.75	60
74	26.114	36.070	4.53	202.1	98.2	26.097	23.812	32.082	39.998	0.312	8.11	74
100	22.591	35.687	3.51	156.9	71.6	22.571	24.580	32.946	40.955	0.410	9.47	100
124	16.820	35.364	1.90	84.6	34.6	16.800	25.842	34.390	42.569	0.477	9.00	124
150	14.137	35.196	3.36	150.0	58.1	14.115	26.315	34.960	43.229	0.527	7.14	149
174	12.912	35.127	3.43	153.0	57.8	12.888	26.515	35.207	43.520	0.566	5.09	173
200	12.798	35.140	3.33	148.6	56.0	12.771	26.548	35.245	43.562	0.607	3.31	199
224	12.146	35.081	3.25	145.2	53.9	12.117	26.630	35.353	43.695	0.643	2.55	223
250	11.998	35.077	3.21	143.3	53.1	11.965	26.656	35.385	43.733	0.680	2.19	249
274	11.733	35.052	3.01	134.4	49.5	11.698	26.687	35.428	43.785	0.715	2.09	273
300	11.662	35.046	3.11	138.8	51.0	11.623	26.697	35.440	43.801	0.751	2.09	299
350	10.899	34.984	3.05	136.0	49.2	10.856	26.790	35.565	43.956	0.819	1.98	349
400	10.603	34.980	2.81	125.4	45.0	10.554	26.840	35.628	44.031	0.885	2.15	399
450	10.243	35.017	2.05	91.6	32.6	10.189	26.933	35.736	44.152	0.948	2.16	449
500	9.856	35.023	1.77	79.1	28.0	9.798	27.005	35.824	44.256	1.008	1.85	499
600	9.302	34.992	1.70	75.8	26.4	9.234	27.074	35.918	44.372	1.121	1.77	599
700	8.915	35.061	1.35	60.4	20.9	8.837	27.192	36.052	44.522	1.227	1.82	699
800	8.289	35.101	1.06	47.4	16.2	8.203	27.323	36.210	44.706	1.323	2.36	799
900	7.259	35.034	1.20	53.4	17.8	7.169	27.422	36.358	44.899	1.406	0.98	899
1000	7.004	35.008	1.28	57.3	19.0	6.905	27.439	36.387	44.940	1.486	0.88	999
1200	6.079	34.977	1.54	68.7	22.3	5.967	27.539	36.532	45.127	1.638	1.44	1198
1400	4.845	34.880	1.88	84.1	26.4	4.725	27.612	36.668	45.321	1.770	0.82	1398
1600	4.373	34.850	2.13	95.1	29.6	4.239	27.642	36.723	45.400	1.895	0.93	1598
1800	3.645	34.842	2.38	106.1	32.4	3.502	27.712	36.831	45.543	2.012	1.27	1798
2000	2.838	34.783	2.91	130.1	38.9	2.688	27.740	36.903	45.657	2.113	0.73	1998
2500	2.092	34.757	3.34	149.0	43.7	1.910	27.784	36.990	45.785	2.339	0.62	2498
2840	1.884	34.748	3.51	156.8	45.8	1.674	27.795	37.014	45.821	2.486	---	2838

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
50	26.243	36.023	4.78	213.4	103.9	26.232	23.735	32.001	39.916	49
73	26.115	36.068	4.71	210.3	102.2	26.098	23.810	32.080	39.997	73
129	16.287	35.357	1.47	65.6	26.6	16.266	25.962	34.528	42.724	128
399	10.602	34.981	2.78	124.1	44.6	10.554	26.841	35.629	44.032	398
624	9.087	34.973	1.94	86.6	30.1	9.017	27.095	35.948	44.412	623
799	8.294	35.097	1.11	49.6	16.9	8.208	27.319	36.206	44.702	798
1199	6.078	34.977	1.45	64.7	21.0	5.966	27.539	36.532	45.127	1197
1598	4.374	34.852	2.17	96.9	30.1	4.241	27.643	36.724	45.401	1596
1999	2.839	34.783	2.94	131.3	39.3	2.689	27.740	36.903	45.657	1997
2299	2.262	34.765	3.20	142.9	42.1	2.095	27.776	36.972	45.757	2296
2599	2.064	34.756	3.36	150.0	44.0	1.873	27.786	36.994	45.791	2597
2845	1.884	34.745	3.49	155.8	45.5	1.673	27.793	37.012	45.819	---

CDARWIN 19  
DATE: 1/10/87

STA: 88

TIME: 1311

LAT: 2° 6.0N

LOn: 46° 50 3E

SONIC DEPTH: 3303 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.549	35.750	4.96	221.6	108.2	26.548	23.429	31.691	39.601	0.027	---	6
10	26.549	35.750	4.93	220.0	107.5	26.547	23.429	31.691	39.601	0.044	3.32	10
20	26.554	35.750	4.87	217.3	106.2	26.550	23.428	31.690	39.600	0.089	4.36	20
30	26.563	35.754	4.88	217.9	106.5	26.556	23.429	31.691	39.600	0.134	5.16	30
40	26.560	35.758	4.91	219.2	107.1	26.551	23.434	31.695	39.605	0.178	5.87	40
50	26.457	35.859	4.85	216.7	105.8	26.446	23.543	31.806	39.718	0.222	6.58	50
60	26.225	35.992	4.82	215.1	104.7	26.212	23.717	31.985	39.900	0.265	7.34	60
74	25.950	36.084	4.70	209.8	101.7	25.933	23.874	32.147	40.068	0.323	8.57	74
100	20.433	35.415	3.38	150.7	66.0	20.414	24.969	33.402	41.472	0.412	9.22	100
124	18.677	35.483	2.20	98.1	41.6	18.655	25.479	33.965	42.085	0.480	8.76	124
150	13.634	35.203	3.09	138.0	52.9	13.613	26.426	35.090	43.377	0.532	7.07	149
174	13.193	35.163	3.27	146.0	55.5	13.169	26.486	35.167	43.470	0.571	5.28	173
200	12.822	35.151	3.25	145.1	54.7	12.795	26.552	35.247	43.564	0.611	3.47	199
224	12.151	35.081	3.36	150.1	55.8	12.121	26.629	35.352	43.694	0.647	2.49	223
250	11.854	35.062	3.05	136.0	50.2	11.822	26.672	35.407	43.760	0.684	2.10	249
274	11.738	35.055	3.11	138.9	51.2	11.703	26.689	35.429	43.787	0.718	1.78	273
300	11.649	35.046	3.15	140.7	51.7	11.610	26.700	35.443	43.804	0.755	1.80	299
350	11.109	35.000	3.20	142.7	51.8	11.065	26.765	35.531	43.913	0.824	2.05	349
400	10.637	34.992	2.78	124.1	44.6	10.588	26.843	35.630	44.031	0.891	2.25	399
450	10.339	35.014	2.31	102.9	36.8	10.285	26.914	35.713	44.125	0.954	2.32	449
500	9.870	35.020	1.78	79.5	28.1	9.812	27.000	35.818	44.250	1.014	1.80	499
600	9.512	35.032	1.49	66.7	23.4	9.443	27.071	35.905	44.351	1.128	1.85	599
700	8.994	35.059	1.36	60.8	21.1	8.916	27.179	36.035	44.502	1.235	1.70	699
800	8.423	35.106	1.17	52.4	18.0	8.336	27.307	36.188	44.678	1.334	2.33	799
900	7.417	35.066	1.21	54.1	18.1	7.326	27.425	36.353	44.886	1.420	1.44	899
1000	6.973	35.011	1.31	58.6	19.4	6.880	27.445	36.394	44.947	1.500	1.12	999
1200	6.122	34.978	1.51	67.6	21.9	6.009	27.535	36.526	45.119	1.651	1.28	1198
1400	4.780	34.876	1.98	88.2	27.7	4.661	27.616	36.675	45.332	1.785	0.82	1398
1600	4.326	34.848	2.22	98.9	30.7	4.193	27.645	36.728	45.408	1.910	0.70	1598
1800	3.831	34.840	2.34	104.3	32.0	3.685	27.692	36.801	45.505	2.028	1.19	1798
2000	3.001	34.794	2.85	127.2	38.2	2.849	27.734	36.889	45.635	2.132	0.79	1998
2500	2.091	34.759	3.28	146.4	43.0	1.909	27.786	36.992	45.786	2.362	0.58	2498
3000	1.843	34.746	3.58	159.6	46.6	1.618	27.798	37.020	45.830	2.579	0.54	2997
3316	1.699	34.738	3.75	167.3	48.6	1.446	27.804	37.036	45.855	2.714	---	3313

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	26.561	35.750	4.87	217.4	106.2	26.556	23.426	31.688	39.598	24
54	26.327	35.934	4.94	220.5	107.5	26.315	23.641	31.907	39.820	54
79	24.582	35.892	3.82	170.5	80.7	24.565	24.149	32.460	40.415	78
123	18.563	35.482	1.87	83.5	35.3	18.541	25.507	33.997	42.120	123
348	11.119	35.003	3.09	137.9	50.1	11.075	26.765	35.531	43.913	348
823	8.217	35.090	1.12	50.0	17.0	8.129	27.325	36.216	44.715	822
1800	3.829	34.842	2.34	104.5	32.0	3.684	27.693	36.803	45.507	1798
2099	2.765	34.787	2.90	129.5	38.7	2.608	27.750	36.918	45.676	2097
2399	2.201	34.765	3.21	143.3	42.2	2.026	27.781	36.981	45.769	2397
2699	2.012	34.755	3.40	151.8	44.5	1.813	27.790	37.002	45.801	2697
2999	1.844	34.746	---	---	---	1.619	27.798	37.020	45.830	2996
3317	1.699	34.737	3.71	165.6	48.1	1.446	27.803	37.035	45.854	---

CDARWIN 19  
DATE: 1/10/87

STA: 89

LAT: 1° 49.1N  
TIME: 1910

LON: 47° 2.3E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.662	35.669	4.69	209.2	102.3	26.661	23.332	31.592	39.500	0.027	---	6
10	26.670	35.669	4.71	210.1	102.8	26.668	23.330	31.590	39.498	0.045	4.07	10
20	26.675	35.669	4.60	205.4	100.5	26.670	23.329	31.589	39.497	0.091	4.94	20
30	26.677	35.669	4.55	203.3	99.5	26.670	23.329	31.589	39.497	0.136	5.96	30
40	26.671	35.675	4.57	203.9	99.8	26.662	23.336	31.596	39.504	0.182	6.96	40
50	26.620	35.721	4.61	205.6	100.6	26.609	23.388	31.648	39.557	0.227	7.97	50
60	26.374	35.922	4.61	205.8	100.3	26.360	23.618	31.882	39.795	0.271	8.83	60
74	23.614	35.759	3.92	174.9	81.3	23.599	24.337	32.674	40.655	0.328	9.76	74
100	18.565	35.402	2.62	116.9	49.5	18.547	25.445	33.935	42.059	0.411	9.71	100
124	14.287	35.223	3.13	139.9	54.4	14.269	26.303	34.942	43.206	0.462	8.01	124
150	13.949	35.203	3.13	139.6	53.9	13.927	26.360	35.012	43.288	0.507	5.45	150
174	13.016	35.138	3.32	148.0	56.0	12.992	26.502	35.191	43.500	0.546	3.72	173
196	12.205	35.080	3.60	160.5	59.7	12.179	26.618	35.338	43.678	0.579	---	195

CDARWIN 19  
DATE: 1/10/87

STA: 90  
TIME: 1945

LAT: 1° 47.8N

LON: 47° 1.7E

SONIC DEPTH: 3747 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.665	35.670	4.42	197.2	96.5	26.664	23.332	31.592	39.500	0.027	---	6
10	26.670	35.670	4.44	198.2	97.0	26.668	23.330	31.590	39.498	0.045	3.36	10
20	26.673	35.670	4.50	201.0	98.3	26.668	23.330	31.590	39.498	0.091	4.19	20
30	26.678	35.670	4.49	200.5	98.1	26.671	23.329	31.589	39.497	0.136	4.95	30
40	26.678	35.672	4.63	206.6	101.1	26.669	23.331	31.591	39.499	0.182	5.94	40
50	26.647	35.709	4.68	208.9	102.2	26.636	23.370	31.630	39.538	0.227	6.97	50
60	26.409	35.911	4.48	200.0	97.6	26.395	23.598	31.862	39.774	0.272	7.97	60
74	25.879	35.968	4.38	195.6	94.6	25.862	23.809	32.085	40.009	0.331	9.19	74
100	22.065	35.604	3.23	144.1	65.1	22.045	24.666	33.048	41.071	0.424	9.80	100
124	16.102	35.285	3.02	134.6	54.3	16.082	25.949	34.523	42.725	0.486	8.79	124
150	14.085	35.211	3.21	143.4	55.6	14.063	26.338	34.285	43.256	0.533	6.58	149
174	13.558	35.173	3.37	150.5	57.6	13.533	26.419	35.086	43.376	0.574	4.84	173
200	12.428	35.097	3.72	165.9	62.0	12.401	26.587	35.299	43.630	0.615	3.45	199
224	11.935	35.067	3.55	158.3	58.5	11.906	26.660	35.392	43.742	0.650	2.86	223
250	11.778	35.063	3.13	139.9	51.5	11.746	26.687	35.425	43.781	0.687	2.22	249
274	11.705	35.056	3.00	133.9	49.3	11.670	26.696	35.437	43.796	0.721	1.89	273
300	11.376	35.019	3.34	149.0	54.4	11.338	26.729	35.484	43.856	0.757	1.93	299
350	10.919	34.994	3.10	138.3	50.0	10.876	26.794	35.569	43.958	0.824	1.93	349
400	10.540	34.990	2.82	125.9	45.2	10.492	26.859	35.649	44.054	0.890	2.14	399
450	10.175	34.995	2.53	112.9	40.2	10.121	26.927	35.733	44.152	0.953	2.31	449
500	9.837	35.028	1.88	84.0	29.7	9.779	27.012	35.831	44.264	1.012	1.91	499
600	9.442	35.064	1.62	72.2	25.3	9.373	27.108	35.944	44.392	1.124	1.95	599
700	8.884	35.051	1.40	62.8	21.7	8.806	27.190	36.051	44.522	1.227	1.20	699
800	8.308	35.080	1.24	55.3	18.9	8.222	27.304	36.191	44.686	1.327	2.28	799
900	7.794	35.111	1.06	47.1	15.9	7.700	27.406	36.316	44.833	1.414	1.88	899
1000	6.988	35.047	1.22	54.4	18.0	6.889	27.471	36.420	44.972	1.494	1.30	999
1200	6.120	34.966	1.52	68.1	22.1	6.007	27.525	36.516	45.109	1.643	1.68	1198
1400	4.844	34.886	2.01	89.8	28.2	4.724	27.617	36.673	45.326	1.774	0.85	1398
1600	4.243	34.849	2.29	102.3	31.7	4.111	27.655	36.742	45.426	1.897	0.96	1598
1800	3.755	34.849	2.41	107.5	32.9	3.610	27.706	36.819	45.527	2.013	1.57	1798
2000	2.720	34.777	3.14	140.4	41.9	2.572	27.745	36.915	45.675	2.113	0.49	1998
2500	2.101	34.757	3.45	153.9	45.2	1.918	27.784	36.989	45.783	2.341	0.54	2498
3000	1.870	34.748	3.60	160.8	46.9	1.645	27.797	37.018	45.827	2.557	0.38	2997
3500	1.611	34.734	3.84	171.4	49.7	1.342	27.808	37.046	45.871	2.771	0.49	3497
3774	1.534	34.729	3.97	177.4	51.3	1.238	27.812	37.056	45.866	2.886	---	3771

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.643	35.680	4.83	215.6	105.5	26.638	23.348	31.608	39.517	24
149	14.092	35.214	2.66	118.8	46.0	14.070	26.338	34.985	43.256	149
249	11.803	35.061	2.86	127.7	47.1	11.771	26.681	35.418	43.773	248
849	8.225	35.136	0.99	44.2	15.1	8.134	27.361	36.251	44.749	848
1099	6.378	34.969	1.39	62.1	20.3	6.274	27.493	36.472	45.053	1097
1499	4.358	34.863	2.09	93.3	29.0	4.234	27.653	36.733	45.410	1497
1999	2.721	34.776	3.08	137.5	41.0	2.573	27.745	36.914	45.674	1997
2391	2.228	34.763	3.28	146.4	43.1	2.053	27.778	36.976	45.763	2389
2799	1.923	34.747	3.56	158.9	46.4	1.716	27.791	37.008	45.813	2797
3099	1.827	34.744	3.55	158.5	46.2	1.593	27.798	37.022	45.833	3096
3499	1.615	34.733	3.84	171.4	49.7	1.346	27.807	37.045	45.869	3496
3776	1.534	34.728	3.93	175.4	50.8	1.238	27.811	37.055	45.885	---



CDARWIN 19  
DATE: 1/11/87

STA: 91

TIME: 0144

LAT: 1° 32.6N

LOX: 47° 14.8E

SONIC DEPTH: 4057 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	26.577	35.603	4.65	207.5	101.3	26.576	23.309	31.572	39.483	0.027	---	6
10	26.582	35.602	4.48	200.1	97.7	26.580	23.307	31.570	39.481	0.046	4.32	10
20	26.588	35.604	4.71	210.4	102.7	26.583	23.308	31.570	39.481	0.091	5.08	20
30	26.590	35.611	4.65	207.6	101.4	26.583	23.313	31.575	39.486	0.137	5.83	30
40	26.566	35.640	4.58	204.4	99.8	26.557	23.343	31.606	39.517	0.183	6.69	40
50	26.320	35.911	4.54	202.9	98.8	26.309	23.626	31.892	39.806	0.227	7.64	50
60	25.869	35.894	4.59	204.8	99.0	25.856	23.755	32.033	39.957	0.270	8.42	60
74	24.242	35.828	3.77	168.3	79.1	24.226	24.203	32.523	40.487	0.324	9.30	74
100	20.387	35.493	3.05	136.0	59.6	20.368	25.042	33.474	41.545	0.410	9.53	100
124	14.880	35.243	3.20	142.7	56.2	14.861	26.191	34.808	43.051	0.467	8.28	124
150	13.962	35.195	3.52	156.9	60.6	13.940	26.351	35.003	43.278	0.513	6.23	150
174	12.691	35.121	3.71	165.7	62.3	12.667	26.554	35.255	43.576	0.552	4.44	173
200	12.295	35.096	3.47	154.8	57.7	12.268	26.613	35.330	43.666	0.591	2.84	199
224	12.165	35.084	3.46	154.3	57.4	12.135	26.629	35.352	43.693	0.626	2.17	223
250	12.084	35.077	3.30	147.4	54.7	12.051	26.640	35.366	43.710	0.664	1.94	249
274	11.895	35.069	3.05	136.2	50.3	11.859	26.671	35.404	43.766	0.698	2.18	273
300	11.292	35.004	3.48	155.3	56.6	11.254	26.732	35.491	43.867	0.735	2.26	299
350	10.999	35.011	3.17	141.3	51.2	10.956	26.792	35.563	43.950	0.803	1.98	349
400	10.486	34.979	2.97	132.8	47.6	10.438	26.860	35.653	44.060	0.868	1.85	399
450	10.286	34.979	2.83	126.3	45.1	10.232	26.896	35.697	44.112	0.931	1.89	449
500	9.987	35.010	2.43	108.7	38.5	9.928	26.973	35.786	44.213	0.993	2.39	499
600	9.464	35.083	1.55	69.2	24.3	9.395	27.119	35.955	44.402	1.105	1.72	599
700	8.911	35.065	1.39	62.2	21.5	8.833	27.196	36.056	44.526	1.209	1.63	699
800	8.278	35.108	1.20	53.7	18.3	8.192	27.330	36.218	44.714	1.305	2.20	799
900	7.174	35.030	1.33	59.2	19.7	7.084	27.431	36.371	44.915	1.390	1.51	899
1000	6.899	35.017	1.36	60.8	20.1	6.801	27.460	36.413	44.970	1.469	1.36	999
1200	6.054	34.977	1.52	67.9	22.0	5.942	27.542	36.536	45.132	1.617	1.69	1198
1400	4.775	34.880	2.09	93.1	29.2	4.656	27.620	36.679	45.336	1.746	0.93	1398
1600	4.119	34.840	2.40	107.3	33.1	3.988	27.660	36.754	45.444	1.867	0.82	1598
1800	3.537	34.828	2.60	115.9	35.3	3.395	27.710	36.835	45.553	1.980	1.28	1798
2000	2.737	34.779	3.09	137.9	41.1	2.589	27.745	36.914	45.673	2.080	1.01	1998
2500	2.110	34.756	3.39	151.4	44.5	1.927	27.782	36.987	45.781	2.308	0.66	2498
2704	1.951	34.749	3.56	159.1	46.5	1.752	27.700	37.005	45.808	2.378	---	2701

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
224	12.174	35.084	2.99	133.5	49.6	12.144	26.627	35.349	43.690	223
399	10.699	34.994	2.67	119.2	42.9	10.650	26.834	35.618	44.016	398
824	8.273	35.087	1.13	50.4	17.2	8.184	27.315	36.203	44.700	823
1199	6.108	34.973	1.43	63.8	20.7	6.996	27.532	36.524	45.118	1198
1749	3.634	34.815	2.54	113.4	34.6	3.496	27.690	36.810	45.524	1747
1999	2.828	34.780	2.98	133.0	39.8	2.679	27.739	36.902	45.657	1997
2249	2.423	34.767	3.20	142.9	42.3	2.258	27.764	36.951	45.727	2247
2749	1.947	34.745	3.52	157.1	45.9	1.744	27.787	37.003	45.806	---
2999	1.849	34.742	3.62	161.6	47.1	1.624	27.794	37.016	45.826	---
3399	1.682	34.736	3.74	167.0	48.5	1.421	27.804	37.038	45.858	---
3750	1.525	34.728	3.96	176.8	51.1	1.232	27.811	37.055	45.886	---
4093	1.454	34.725	4.07	181.7	52.5	1.126	27.816	37.066	45.903	---

CDARWIN 19  
DATE: 1/11/87

STA: 92

LAT: 1° 15.5N  
TIME: 0758

LON: 47° 27.7E

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.913	35.527	4.89	218.3	105.4	25.912	23.461	31.741	39.668	0.027	---	6
10	25.920	35.527	4.64	207.4	100.1	25.918	23.469	31.739	39.666	0.044	3.38	10
20	25.870	35.526	4.51	201.2	97.0	25.865	23.474	31.756	39.684	0.088	4.32	20
30	25.822	35.526	4.52	201.7	97.2	25.815	23.490	31.772	39.702	0.132	5.28	30
40	25.733	35.525	4.48	199.9	96.2	25.724	23.518	31.802	39.734	0.176	6.29	40
50	25.590	35.523	4.38	194.6	93.4	25.579	23.561	31.850	39.785	0.220	7.23	50
60	25.289	35.526	4.20	187.7	89.7	25.276	23.656	31.952	39.894	0.263	8.14	60
74	24.017	35.600	3.77	168.2	78.7	24.001	24.097	32.426	40.398	0.321	9.25	74
100	19.683	35.446	2.28	101.8	44.0	19.665	25.192	33.646	41.737	0.408	9.64	100
124	14.881	35.248	2.40	107.3	42.2	14.862	26.194	34.811	43.054	0.462	8.32	124
150	13.812	35.179	3.20	143.0	55.0	13.790	26.370	35.028	43.309	0.508	5.82	150
174	12.938	35.134	3.42	152.7	57.7	12.914	26.515	35.206	43.519	0.547	3.98	173
198	12.465	35.106	3.05	136.2	50.9	12.439	26.567	35.298	43.627	0.584	---	197

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	25.862	35.531	4.58	204.5	98.6	25.860	23.480	31.761	39.689	9
29	25.775	35.529	4.52	201.8	97.2	25.769	23.507	31.790	39.721	29
39	25.741	35.527	4.50	200.9	96.7	25.732	23.516	31.801	39.732	39
49	25.569	35.526	4.41	196.9	94.5	25.558	23.569	31.858	39.794	49
59	25.255	35.527	4.24	189.3	90.4	25.242	23.667	31.965	39.908	59
69	24.179	35.539	4.13	184.4	86.4	24.164	24.002	32.327	40.297	69
78	23.222	35.675	3.26	145.5	67.1	23.206	24.388	32.737	40.729	78
89	20.486	35.532	2.61	116.5	51.1	20.469	25.044	33.473	41.540	88
98	18.431	35.438	2.51	112.1	47.3	18.414	25.506	34.000	42.127	98
120	14.750	35.257	2.37	105.8	41.5	14.732	26.230	34.852	43.099	119
139	14.088	35.205	2.77	123.7	47.9	14.068	26.332	34.979	43.250	138
200	12.445	35.104	2.95	131.7	49.2	12.418	26.590	35.301	43.631	---

SONIC DEPTH: 4219 m

TIME: 0906

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
399	10.618	34.991	2.72	121.4	43.6	10.569	26.846	35.633	44.035	398
599	9.478	35.063	1.59	71.0	24.9	9.409	27.101	35.936	44.383	598
799	8.445	35.105	1.17	52.2	17.9	8.358	27.302	36.182	44.672	798
999	6.928	35.001	1.24	55.4	18.3	6.830	27.444	36.395	44.951	998
1400	4.830	34.881	1.92	85.7	27.0	4.710	27.614	36.671	45.325	1398
1899	3.091	34.791	2.84	126.8	38.2	2.947	27.723	36.872	45.614	1897
2299	2.396	34.764	3.25	145.1	42.9	2.227	27.764	36.953	45.731	2296
2699	1.979	34.750	3.49	155.8	45.6	1.780	27.789	37.002	45.803	2697
3099	1.826	34.739	3.68	164.3	47.9	1.592	27.794	37.018	45.829	3097
3499	1.681	34.735	3.79	169.2	49.1	1.410	27.804	37.038	45.859	3496
3900	1.507	34.727	4.02	179.5	51.9	1.198	27.813	37.059	45.891	3897
4257	1.400	34.722	4.25	187.7	53.7	1.077	27.822	37.079	45.921	4256

DARWIN 19  
DATE: 1/11/87

STA. 94

TIME: 1540

LAT: 0° 57.2N

LONG: 47° 39' 5E

SONIC DEPTH: 4398 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.982	35.561	4.85	216.4	104.6	25.981	23.464	31.742	39.667	0.026	---	6
10	25.983	35.561	4.81	214.7	103.8	25.981	23.464	31.742	39.667	0.044	3.81	10
20	25.974	35.561	4.78	213.6	103.2	25.970	23.468	31.746	39.671	0.088	4.60	20
30	25.864	35.557	4.82	216.3	103.9	25.857	23.500	31.781	39.709	0.132	5.71	30
40	25.790	35.556	4.67	208.6	100.5	25.781	23.523	31.806	39.736	0.176	6.75	40
50	25.627	35.555	4.75	212.0	101.8	25.616	23.573	31.861	39.794	0.220	7.67	50
60	25.300	35.551	4.64	207.3	99.0	25.287	23.672	31.967	39.909	0.263	8.48	60
74	22.995	35.501	4.13	184.4	84.6	22.980	24.321	32.679	40.678	0.317	9.37	74
100	17.740	35.327	3.21	143.5	59.7	17.723	25.592	34.110	42.260	0.402	9.56	100
124	14.851	35.245	3.04	135.7	53.3	14.832	26.199	34.817	43.061	0.451	7.82	124
150	13.837	35.182	3.35	149.5	57.6	13.816	26.367	35.024	43.303	0.496	5.63	150
174	13.270	35.155	3.33	148.5	56.5	13.246	26.464	35.142	43.442	0.536	3.81	173
200	12.753	35.127	3.11	138.8	52.2	12.726	26.547	35.246	43.565	0.576	3.09	199
224	12.173	35.088	2.56	114.1	42.4	12.143	26.631	35.353	43.694	0.613	2.71	223
250	11.901	35.074	2.81	125.5	46.4	11.869	26.672	35.405	43.758	0.650	2.31	249
274	11.899	35.075	2.80	125.2	46.3	11.863	26.674	35.407	43.758	0.684	2.23	273
300	11.371	35.024	3.00	134.1	49.0	11.333	26.734	35.489	43.861	0.721	2.26	299
350	10.818	34.994	2.99	133.7	48.3	10.775	26.812	35.590	43.984	0.788	1.94	349
400	10.530	34.983	2.89	129.2	46.3	10.482	26.856	35.646	44.052	0.853	1.70	399
450	10.409	35.014	2.48	110.8	39.6	10.355	26.902	35.697	44.107	0.916	1.89	449
500	9.956	34.984	2.32	103.5	36.7	9.897	26.958	35.773	44.201	0.977	2.25	499
600	9.286	35.039	1.53	68.3	23.9	9.218	27.114	35.957	44.412	1.090	1.80	599
700	8.907	35.046	1.40	62.5	21.6	8.829	27.182	36.042	44.513	1.194	1.54	699
800	8.507	35.119	1.12	49.8	17.1	8.420	27.303	36.181	44.667	1.292	1.97	799
900	7.752	35.085	1.10	49.1	16.5	7.658	27.392	36.304	44.823	1.381	1.64	899
1000	6.613	34.980	1.38	61.5	20.2	6.517	27.469	36.436	45.006	1.463	1.67	999
1196	6.142	34.949	1.60	71.3	23.1	6.030	27.509	36.500	45.092	1.612	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	25.942	35.561	4.82	215.2	103.9	25.938	23.478	31.757	39.683	19
50	25.657	35.558	4.52	201.8	97.0	25.646	23.566	31.853	39.786	50
98	17.529	35.372	2.47	110.3	45.7	17.512	25.677	34.202	42.358	98
149	13.571	35.172	2.88	128.6	49.2	13.550	26.415	35.081	43.371	149
199	12.658	35.124	2.67	119.2	44.8	12.631	26.563	35.266	43.588	199
318	11.024	34.986	3.16	141.1	51.1	10.984	26.768	35.538	43.924	318
399	10.582	34.990	2.75	122.8	44.1	10.533	26.852	35.640	44.043	398
499	9.960	34.987	2.21	98.7	34.9	9.901	26.959	35.774	44.202	498
649	9.203	35.071	1.33	59.4	20.7	9.130	27.153	36.000	44.458	648
849	8.237	35.114	1.02	45.5	15.5	8.146	27.342	36.231	44.729	847
999	6.639	34.982	1.32	58.9	19.4	6.543	27.468	36.433	45.002	998
1200	6.138	34.950	1.49	66.5	21.6	6.026	27.510	36.501	45.093	---

CDARWIN 19  
DATE: 1/11/87

STA: 95

TIME: 1806

LAT: 0° 42.7N

LOX: 47° 52.2E

SONIC DEPTH: 4530 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	25.896	35.576	4.65	207.7	100.3	25.895	23.503	31.783	39.710	0.026	---	6
10	25.896	35.577	4.62	201.9	97.5	25.894	23.504	31.784	39.711	0.044	3.60	10
20	25.898	35.577	4.51	201.5	97.3	25.893	23.504	31.784	39.711	0.088	4.43	20
30	25.889	35.576	4.35	194.0	93.7	25.882	23.507	31.787	39.714	0.131	5.36	30
40	25.771	35.573	4.40	196.6	94.7	25.762	23.542	31.825	39.755	0.175	6.36	40
50	25.662	35.572	4.47	199.7	96.0	25.651	23.575	31.862	39.794	0.218	7.31	50
60	25.456	35.565	4.49	200.4	96.0	25.443	23.635	31.926	39.864	0.262	8.17	60
74	22.894	35.486	4.15	185.1	84.8	22.879	24.338	32.699	40.701	0.319	9.20	74
100	19.364	35.398	3.28	146.5	62.9	19.346	25.238	33.703	41.804	0.403	9.37	100
124	15.312	35.275	2.92	130.4	51.8	15.293	26.120	34.722	42.950	0.456	7.88	124
150	14.471	35.210	3.33	148.8	58.1	14.449	26.254	34.887	43.145	0.504	5.77	150
174	13.721	35.176	3.37	150.4	57.8	13.696	26.387	35.048	43.332	0.546	4.30	173
200	13.143	35.149	3.21	143.2	54.3	13.115	26.486	35.169	43.474	0.589	3.59	199
224	12.260	35.094	2.73	121.9	45.4	12.230	26.618	35.337	43.675	0.626	3.18	223
250	11.930	35.078	2.93	131.0	48.5	11.897	26.670	35.402	43.762	0.663	2.53	249
274	11.870	35.073	2.88	128.5	47.4	11.834	26.678	35.412	43.765	0.697	2.23	273
300	11.454	35.036	3.01	134.4	49.2	11.416	26.728	35.480	43.848	0.734	2.23	299
350	10.917	35.017	2.87	127.9	46.3	10.874	26.812	35.587	43.976	0.801	2.05	349
400	10.506	34.984	2.87	128.3	46.0	10.458	26.860	35.652	44.058	0.866	1.76	399
450	10.212	34.976	2.62	117.1	41.7	10.158	26.906	35.710	44.128	0.929	1.81	449
500	9.969	34.986	2.41	107.8	38.2	9.910	26.957	35.771	44.199	0.991	2.20	499
600	9.307	35.039	1.59	71.2	24.9	9.239	27.110	35.953	44.407	1.103	1.81	599
700	8.718	35.010	1.64	73.4	25.3	8.641	27.183	36.053	44.631	1.208	1.52	699
800	8.389	35.104	1.12	50.1	17.2	8.302	27.310	36.193	44.684	1.306	1.99	799
900	8.128	35.113	1.10	49.2	16.7	8.032	27.358	36.253	44.756	1.395	1.51	899
1000	6.700	34.985	1.33	59.4	19.5	6.603	27.462	36.425	44.991	1.480	2.00	999
1200	6.194	34.972	1.56	69.6	22.6	6.081	27.521	36.508	45.098	1.631	1.54	1198
1400	5.054	34.887	1.93	86.3	27.3	4.932	27.594	36.639	45.283	1.768	1.16	1398
1600	4.040	34.832	2.42	107.9	33.3	3.910	27.662	36.760	45.453	1.891	0.66	1598
1800	3.444	34.807	2.67	119.4	36.3	3.304	27.703	36.833	45.566	2.005	1.01	1798
2000	3.092	34.791	2.88	128.4	38.7	2.939	27.724	36.874	45.615	2.110	0.58	1998
2500	2.150	34.757	3.30	147.4	43.3	1.966	27.780	36.983	45.775	2.350	0.76	2498
3000	1.840	34.742	3.67	163.9	47.8	1.615	27.794	37.017	45.827	2.568	0.38	2997
3500	1.652	34.732	3.87	172.5	50.1	1.352	27.803	37.039	45.862	2.782	0.31	3497
4000	1.495	34.725	4.06	181.3	52.4	1.176	27.812	37.060	45.893	2.995	0.22	3997
4500	1.358	34.719	4.24	189.5	54.6	0.987	27.820	37.079	45.922	3.204	0.22	4497
4588	1.335	34.717	4.31	192.4	55.4	0.955	27.821	37.081	45.926	3.241	---	4585

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
174	14.018	35.185	2.88	128.6	49.7	13.993	26.332	34.982	43.256	173
499	9.951	34.963	2.37	105.8	37.5	9.892	26.942	35.758	44.186	498
834	8.461	35.150	0.99	44.2	15.2	8.370	27.336	36.215	44.703	832
1099	6.425	34.973	1.39	62.1	20.3	6.320	27.490	36.466	45.045	1097
1398	4.982	34.883	1.91	85.3	26.9	4.861	27.599	36.648	45.295	1397
1900	3.254	34.797	2.72	121.4	36.7	3.107	27.713	36.854	45.587	1898
2399	2.297	34.764	3.19	142.4	42.0	2.120	27.773	36.967	45.751	2396
2799	1.922	34.743	3.53	157.6	46.1	1.715	27.788	37.005	45.810	2797
3300	1.568	34.730	3.84	171.4	49.8	1.418	27.799	37.033	45.854	3297
3699	1.585	34.727	3.92	175.0	50.7	1.296	27.806	37.047	45.874	3696
4199	1.419	34.720	4.13	184.4	53.2	1.080	27.815	37.068	45.907	4196
4594	1.335	34.712	4.30	192.0	55.2	0.954	27.817	37.077	45.923	---

CDARWIN 19  
DATE: 1/12/87

STA: 96

LAT: 0° 24.4N  
TIME: 0148

LON: 48° 6' 0E

SONIC DEPTH: 4653 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	25.802	35.584	4.37	195.1	94.1	25.800	23.538	31.821	39.750	0.035	---	8
10	25.792	35.584	4.38	195.6	94.3	25.790	23.542	31.824	39.753	0.043	2.59	10
20	25.783	35.584	4.42	197.5	95.2	25.779	23.545	31.828	39.758	0.087	3.65	20
30	25.764	35.584	4.30	192.0	92.5	25.757	23.552	31.835	39.765	0.130	4.53	30
40	25.751	35.584	4.26	190.2	91.6	25.742	23.556	31.840	39.771	0.174	5.51	40
50	25.684	35.582	4.18	186.5	89.7	25.673	23.576	31.862	39.794	0.217	6.63	50
60	25.598	35.580	4.07	181.8	87.3	25.585	23.602	31.890	39.824	0.260	7.61	60
74	25.124	35.564	3.74	167.1	79.6	25.108	23.737	32.037	39.983	0.320	8.85	74
100	20.907	35.483	2.52	112.6	49.8	20.888	24.894	33.311	41.367	0.412	9.60	100
124	15.296	35.273	2.46	110.0	43.6	15.277	26.122	34.724	42.953	0.470	8.58	124
150	14.496	35.213	2.84	127.0	49.6	14.474	26.252	34.883	43.140	0.518	6.55	150
174	13.307	35.155	2.74	122.2	46.5	13.283	26.457	35.134	43.433	0.560	4.89	173
200	12.454	35.103	2.65	118.3	44.2	12.427	26.587	35.297	43.628	0.600	3.62	199
224	11.810	35.067	2.78	124.3	45.8	11.781	26.683	35.420	43.774	0.634	2.89	223
250	11.738	35.064	2.70	120.7	44.4	11.706	26.695	35.435	43.792	0.671	2.34	249
274	11.704	35.068	2.63	117.5	43.3	11.669	26.705	35.446	43.805	0.704	2.27	273
300	10.939	35.019	2.70	120.6	43.7	10.902	26.808	35.581	43.970	0.740	2.30	299
350	10.654	34.995	2.62	117.0	42.1	10.611	26.842	35.627	44.027	0.804	1.70	349
400	10.486	35.013	2.33	104.2	37.3	10.438	26.887	35.679	44.085	0.868	1.69	399
450	10.106	34.991	2.36	105.4	37.5	10.053	26.936	35.745	44.167	0.930	1.95	449
500	9.869	35.034	1.70	75.9	26.8	9.811	27.011	35.830	44.261	0.990	2.23	499
600	9.297	35.035	1.51	67.6	23.6	9.229	27.109	35.952	44.407	1.100	1.60	599
700	8.771	35.007	1.46	65.0	22.4	8.694	27.173	36.040	44.517	1.205	1.69	699
800	8.794	35.175	0.93	41.5	14.3	8.705	27.303	36.167	44.641	1.303	1.86	799
900	8.146	35.110	1.03	46.1	15.7	8.050	27.353	36.247	44.749	1.393	1.54	899
1000	6.629	34.986	1.30	58.2	19.1	6.533	27.472	36.438	45.007	1.477	1.88	999
1200	5.654	34.908	1.67	74.6	23.9	5.546	27.537	36.552	45.167	1.625	1.44	1198
1400	4.831	34.873	1.93	86.2	27.1	4.711	27.608	36.655	45.319	1.760	1.46	1398
1600	3.988	34.830	2.32	103.7	31.9	3.859	27.665	36.766	45.462	1.879	0.73	1598
1800	3.295	34.799	2.73	121.8	36.9	3.157	27.710	36.848	45.579	1.989	0.70	1798
2000	3.085	34.788	2.84	126.6	38.1	2.932	27.722	36.872	45.614	2.094	0.58	1998
2500	2.138	34.756	3.32	148.2	43.5	1.955	27.780	36.984	45.776	2.333	0.66	2498
3000	1.811	34.739	3.65	162.9	47.5	1.587	27.794	37.019	45.830	2.550	0.31	2997
3500	1.650	34.732	3.83	171.0	49.6	1.380	27.804	37.040	45.862	2.763	0.22	3497
4000	1.503	34.725	4.02	179.5	51.9	1.184	27.812	37.059	45.892	2.976	0.38	3997
4500	1.350	34.719	4.29	191.6	55.2	0.979	27.821	37.080	45.924	3.185	0.22	4497
4547	1.347	34.719	4.28	190.9	55.0	0.972	27.822	37.081	45.926	3.203	---	4539

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.782	35.584	4.59	204.9	98.7	25.777	23.546	31.826	39.758	24
274	11.699	35.068	2.62	117.0	43.0	11.664	26.706	35.448	43.807	273
374	10.665	35.018	2.39	106.7	38.4	10.619	26.858	35.643	44.042	373
599	9.301	35.035	1.50	67.0	23.4	9.233	27.106	35.951	44.405	598
824	8.482	35.148	1.00	44.6	15.3	8.392	27.330	36.209	44.696	823
1249	5.672	34.947	1.60	71.4	22.9	5.559	27.566	36.580	45.194	1247
1749	3.429	34.804	2.65	118.3	35.9	3.294	27.701	36.832	45.556	1747
2249	2.603	34.774	3.07	137.1	40.8	2.435	27.755	36.932	45.699	2247
2999	1.811	34.739	3.66	163.4	47.6	1.587	27.794	37.019	45.830	2997
3499	1.650	34.732	3.85	171.9	49.9	1.380	27.804	37.040	45.862	3496
3999	1.503	34.725	4.01	179.0	51.7	1.184	27.812	37.059	45.892	3996
4593	1.341	34.719	4.28	191.1	55.0	0.960	27.822	37.082	45.927	---

CDARWIN 19  
DATE: 1/12/87

STA: 97

TIME: 0800

LAT: 0° 14.2N

LOD 48° 11.7E

SONIC DEPTH 4704 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.868	35.576	3.91	174.8	84.3	25.867	23.512	31.792	39.720	0.026	---	6
10	25.844	35.576	3.76	167.7	80.9	25.842	23.519	31.801	39.729	0.044	3.11	10
20	25.789	35.577	3.80	169.4	81.6	25.785	23.538	31.821	39.750	0.087	4.10	20
30	25.750	35.576	3.85	172.0	82.8	25.743	23.550	31.834	39.764	0.131	4.89	30
40	25.689	35.573	3.77	168.3	81.0	25.680	23.567	31.853	39.785	0.174	5.68	40
50	25.527	35.567	3.81	170.1	81.6	25.516	23.614	31.903	39.839	0.217	6.65	50
60	25.373	35.559	3.88	173.1	82.8	25.360	23.656	31.949	39.889	0.260	7.58	60
74	24.387	35.483	3.79	169.1	79.5	24.371	23.898	32.218	40.183	0.319	8.80	74
100	20.544	35.462	2.83	126.5	55.5	20.525	24.975	33.404	41.470	0.407	9.25	100
124	15.835	35.302	2.32	103.5	41.5	15.816	26.023	34.606	42.817	0.468	8.38	124
150	14.658	35.215	2.99	133.5	52.3	14.636	26.218	34.844	43.095	0.517	6.02	150
174	13.701	35.167	3.12	139.2	53.4	13.676	26.385	35.047	43.332	0.560	4.42	173
200	12.794	35.126	2.82	126.0	47.5	12.767	26.538	35.235	43.552	0.602	2.77	199
202	12.701	35.122	2.80	124.8	46.9	12.674	26.553	35.254	43.575	0.605	---	201

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	25.808	35.577	4.50	200.9	96.9	25.806	23.531	31.813	39.742	9
29	25.735	35.584	4.39	196.0	94.4	25.729	23.560	31.844	39.775	28
34	25.641	35.570	4.42	197.4	94.9	25.633	23.579	31.866	39.799	34
39	25.588	35.572	4.24	189.3	90.9	25.579	23.598	31.886	39.820	39
49	25.490	35.565	4.10	183.1	87.8	25.479	23.623	31.914	39.851	48
60	25.168	35.555	4.07	181.5	86.5	25.155	23.715	32.014	39.959	60
79	22.003	35.466	3.25	145.0	65.4	21.987	24.577	32.963	40.989	78
88	21.281	35.458	2.80	125.2	55.7	21.264	24.772	33.179	41.224	88
118	16.816	35.339	2.25	100.3	41.0	16.797	25.824	34.372	42.551	118
129	15.608	35.291	2.47	110.1	44.0	15.588	26.066	34.657	42.875	129
138	14.760	35.226	2.79	124.4	48.8	14.739	26.204	34.826	43.074	138
207	12.623	35.115	2.59	115.7	43.4	12.595	26.563	35.267	43.591	---

CDARWIN 12  
DATE: 1/12/87

STA 98

TIME: 1112

LAT. 0° 0' 4N

LON 48° 23' 3E

SONIC DEPTH: 4755 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	25.747	35.573	3.94	175.9	84.7	25.745	23.547	31.831	39.761	0.035	---	8
10	25.751	35.573	3.86	172.1	82.9	25.749	23.546	31.830	39.760	0.043	3.08	10
20	25.713	35.572	3.63	162.2	78.1	25.709	23.568	31.842	39.774	0.087	3.76	20
30	25.608	35.573	3.62	161.6	77.6	25.601	23.591	31.879	39.813	0.130	4.38	30
40	25.511	35.564	3.75	167.4	80.3	25.502	23.615	31.905	39.842	0.173	5.00	40
50	25.308	35.541	3.63	162.1	77.5	25.297	23.661	31.957	39.898	0.216	5.63	50
60	24.596	35.477	3.81	161.1	76.0	24.583	23.830	32.145	40.104	0.257	6.28	60
74	24.048	35.463	3.43	153.0	71.5	24.032	23.984	32.313	40.286	0.313	7.45	74
100	21.675	35.465	2.64	117.9	52.9	21.655	24.869	33.064	41.099	0.407	8.58	100
124	19.817	35.436	2.56	114.4	49.6	19.794	25.150	33.601	41.688	0.481	8.50	124
150	14.938	35.242	2.85	127.1	50.1	14.915	26.178	34.794	43.035	0.540	7.29	149
174	14.617	35.217	2.90	129.4	50.6	14.591	26.229	34.857	43.110	0.585	5.77	173
200	13.751	35.189	2.83	126.5	48.6	13.722	26.393	35.053	43.335	0.631	4.54	199
224	12.624	35.124	2.68	119.5	44.8	12.594	26.571	35.274	43.599	0.670	3.78	223
250	11.984	35.070	2.87	128.2	47.4	11.951	26.654	35.383	43.731	0.708	3.15	249
274	11.734	35.059	2.74	122.5	45.1	11.699	26.693	35.433	43.791	0.742	2.57	273
300	11.714	35.059	2.67	119.0	43.8	11.675	26.697	35.438	43.797	0.779	2.34	299
350	10.824	35.007	2.54	113.3	40.9	10.781	26.821	35.599	43.992	0.847	2.22	349
400	10.540	35.008	2.49	111.3	39.9	10.492	26.873	35.663	44.068	0.911	2.01	399
450	10.173	35.007	2.27	101.3	36.0	10.119	26.937	35.743	44.162	0.973	2.30	449
500	9.712	35.016	1.71	76.3	26.9	9.654	27.024	35.849	44.286	1.031	2.17	499
600	9.135	35.024	1.48	65.9	22.9	9.068	27.127	35.977	44.438	1.140	1.08	599
700	8.691	35.011	1.39	62.2	21.4	8.614	27.188	36.059	44.538	1.245	1.88	699
800	8.533	35.102	1.10	49.2	16.9	8.446	27.286	36.162	44.648	1.342	1.58	799
900	7.982	35.065	1.17	52.1	17.7	7.887	27.342	36.244	44.754	1.433	1.54	899
1000	7.412	35.032	1.23	54.7	18.3	7.310	27.401	36.330	44.864	1.519	2.02	999
1200	5.949	34.928	1.63	72.8	23.5	5.838	27.516	36.516	45.118	1.671	1.26	1198
1400	4.680	34.864	1.89	84.2	26.4	4.562	27.618	36.682	45.343	1.808	1.49	1398
1600	3.956	34.829	2.34	104.6	32.2	3.827	27.668	36.771	45.468	1.926	0.85	1598
1800	3.779	34.799	2.68	119.6	36.3	3.240	27.702	36.835	45.562	2.036	0.88	1798
2000	3.020	34.788	2.86	127.5	38.3	2.868	27.728	36.881	45.627	2.139	0.88	1998
2500	2.145	34.755	3.37	150.5	44.2	1.962	27.779	36.982	45.774	2.372	0.49	2498
3000	1.826	34.739	3.62	161.4	47.1	1.602	27.793	37.017	45.828	2.591	0.58	2997
3500	1.643	34.731	3.87	172.6	50.1	1.373	27.804	37.040	45.863	2.804	0.49	3497
4000	1.507	34.725	4.06	181.4	52.4	1.188	27.812	37.059	45.892	3.018	0.44	3997
4500	1.358	34.719	4.28	190.9	55.0	0.987	27.821	37.079	45.923	3.226	0.00	4497
4580	1.346	34.719	4.30	192.0	55.3	0.966	27.822	37.082	45.926	3.259	---	4577

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
124	19.676	35.431	2.67	119.2	51.5	19.653	25.183	33.638	41.730	124
224	12.563	35.126	2.67	119.2	44.7	12.533	26.584	35.290	43.617	223
399	10.535	35.009	2.45	109.4	39.2	10.487	26.875	35.665	44.070	398
798	8.561	35.107	1.09	48.7	16.7	8.474	27.286	36.161	44.645	797
1199	5.946	34.931	1.63	72.8	23.5	5.835	27.519	36.520	45.121	1197
1799	3.378	34.799	2.71	121.0	36.7	3.239	27.702	36.836	45.563	1797
2299	2.385	34.768	3.19	142.4	42.1	2.216	27.768	36.957	45.736	2297
2799	1.974	34.747	3.51	156.7	45.9	1.766	27.787	37.001	45.804	2797
3199	1.738	34.735	3.75	167.4	48.7	1.496	27.798	37.027	45.844	3196
3699	1.598	34.729	3.94	175.9	51.0	1.308	27.806	37.047	45.873	3696
4199	1.409	34.723	4.18	186.6	53.8	1.071	27.818	37.072	45.911	4196
4581	1.347	34.718	4.30	192.0	55.3	0.967	27.821	37.080	45.925	---



CDARWIN 19  
DATE: 1/12/87

STA: 99

TIME: 1757

LAT: 0° 20.2S

LON: 48° 37.5E

SONIC DEPTH: 4806 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	26.003	35.584	4.87	217.3	105.1	26.002	23.476	31.753	39.677	0.026	---	6
10	26.005	35.583	4.84	215.9	104.4	26.003	23.474	31.752	39.676	0.044	4.06	10
20	26.006	35.584	4.74	211.4	102.2	26.002	23.476	31.753	39.677	0.088	4.67	20
30	25.953	35.579	4.64	207.2	100.1	25.946	23.489	31.768	39.694	0.132	5.27	30
40	25.861	35.574	4.57	203.9	98.4	25.852	23.515	31.798	39.724	0.176	5.83	40
50	25.472	35.545	4.29	191.7	91.8	25.461	23.614	31.905	39.842	0.220	6.35	50
60	24.119	35.447	4.11	183.6	85.9	24.106	23.950	32.277	40.249	0.261	6.76	60
74	22.682	35.406	3.88	173.2	79.0	22.667	24.339	32.706	40.715	0.313	7.40	74
100	20.856	35.430	3.21	143.4	63.3	20.837	24.867	33.287	41.345	0.401	7.93	100
124	20.145	35.437	3.23	144.1	62.8	20.122	25.064	33.505	41.583	0.474	7.69	124
150	15.884	35.284	3.27	146.1	58.6	15.860	25.999	34.581	42.790	0.540	6.93	149
174	14.864	35.231	3.28	146.3	57.5	14.838	26.186	34.805	43.049	0.587	5.43	173
200	14.722	35.219	3.21	143.1	56.1	14.692	26.209	34.833	43.082	0.635	4.08	199
224	14.379	35.202	3.10	138.2	53.8	14.346	26.271	34.907	43.169	0.680	3.47	223
250	13.813	35.186	2.89	129.2	49.7	13.777	26.378	35.036	43.317	0.726	3.83	249
274	12.684	35.120	3.11	138.7	52.1	12.647	26.557	35.259	43.581	0.764	3.70	273
300	12.061	35.068	2.96	132.0	48.9	12.022	26.638	35.365	43.711	0.804	3.13	299
350	11.702	35.060	2.80	125.1	46.0	11.657	26.701	35.443	43.803	0.875	2.05	349
400	10.936	35.019	2.72	121.3	43.9	10.886	26.811	35.585	43.974	0.945	2.31	399
450	10.692	35.009	2.56	114.1	41.1	10.637	26.848	35.632	44.031	1.011	2.15	449
500	10.356	34.999	2.22	99.2	35.4	10.296	26.900	35.699	44.111	1.075	2.12	499
600	9.575	35.019	1.63	72.9	25.6	9.506	27.050	35.882	44.325	1.193	2.05	599
700	9.117	35.020	1.59	70.8	24.6	9.038	27.128	35.979	44.442	1.302	1.73	699
800	8.611	35.071	1.19	53.0	18.2	8.523	27.250	36.123	44.606	1.403	1.34	799
900	8.137	35.063	1.13	50.4	17.1	8.041	27.318	36.213	44.716	1.499	1.66	899
1000	7.577	35.053	1.16	51.8	17.4	7.474	27.393	36.314	44.842	1.588	1.49	998
1196	6.068	34.938	1.58	70.6	22.9	5.956	27.509	36.504	45.099	1.743	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
18	25.988	35.584	5.00	223.2	107.9	25.984	23.481	31.759	39.683	18
39	25.875	35.575	4.89	218.3	105.3	25.866	23.511	31.792	39.719	38
59	24.237	35.470	4.19	187.1	87.7	24.225	23.932	32.256	40.225	59
98	21.217	35.429	3.08	137.5	61.1	21.198	24.768	33.177	41.225	98
148	15.958	35.287	2.52	112.5	45.2	15.934	25.984	34.563	42.770	148
248	13.968	35.191	2.83	126.3	48.8	13.932	26.350	35.002	43.278	247
349	11.704	35.059	2.72	121.4	44.7	11.659	26.700	35.442	43.801	348
499	10.357	34.996	2.33	104.0	37.2	10.297	26.898	35.696	44.109	498
699	9.117	35.020	1.56	69.6	24.2	9.038	27.128	35.980	44.442	698
849	8.735	35.121	1.07	47.8	16.5	8.641	27.271	36.138	44.616	847
951	7.940	35.037	1.16	51.8	17.5	7.839	27.351	36.255	44.767	949
1199	6.076	34.940	1.55	69.2	22.4	5.964	27.510	36.504	45.099	---

CDARWIN 19  
DATE: 1/12/87

STA: 100

TIME: 2136

LAT: 0° 40.9S

LON: 48° 51 RE

SONIC DEPTH: 4842 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	25.917	35.570	4.58	204.6	98.8	25.915	23.492	31.772	39.698	0.035	---	8
10	25.917	35.570	4.54	202.9	98.0	25.915	23.492	31.772	39.698	0.044	3.77	10
20	25.922	35.570	4.50	200.8	97.0	25.917	23.491	31.771	39.697	0.088	4.43	20
30	25.907	35.569	4.40	196.6	94.9	25.900	23.496	31.776	39.703	0.132	5.09	30
40	25.868	35.565	4.36	194.5	93.8	25.859	23.506	31.787	39.715	0.176	5.67	40
50	25.715	35.555	4.46	199.1	95.8	25.704	23.546	31.831	39.763	0.219	6.34	50
60	25.149	35.519	4.31	192.6	91.8	25.136	23.694	31.993	39.939	0.263	7.33	60
74	22.744	35.389	3.93	175.7	80.2	22.729	24.308	32.674	40.681	0.317	8.26	74
100	20.732	35.398	3.55	158.3	69.8	20.713	24.876	33.300	41.362	0.405	8.79	100
124	17.235	35.340	3.04	135.6	55.9	17.214	25.725	34.260	42.425	0.478	8.52	124
150	14.961	35.235	3.18	142.2	56.0	14.938	26.168	34.782	43.023	0.527	6.73	150
174	14.140	35.195	3.13	139.8	54.2	14.115	26.315	34.960	43.229	0.571	5.44	173
200	13.175	35.153	3.19	142.5	54.1	13.147	26.482	35.164	43.468	0.615	4.06	199
224	12.524	35.117	3.16	141.2	52.9	12.494	26.584	35.292	43.620	0.652	3.63	223
250	11.658	35.059	2.94	131.1	48.2	11.626	26.706	35.449	43.810	0.690	3.07	249
274	11.559	35.055	2.91	129.9	47.6	11.524	26.722	35.469	43.834	0.723	2.56	273
300	11.351	35.044	2.82	128.0	46.0	11.313	26.753	35.509	43.881	0.759	2.33	299
350	10.773	35.009	2.69	120.2	43.3	10.730	26.832	35.612	44.007	0.824	2.07	349
400	10.346	34.991	2.47	110.3	39.4	10.298	26.894	35.692	44.104	0.887	1.58	399
450	10.256	34.996	2.38	106.3	37.9	10.202	26.914	35.717	44.133	0.949	1.66	449
500	9.898	35.024	1.90	84.8	30.0	9.839	26.999	35.816	44.246	1.009	1.88	499
600	9.349	35.022	1.68	75.1	26.3	9.281	27.090	35.931	44.384	1.124	1.77	599
700	8.688	34.995	1.56	69.7	24.0	8.611	27.177	36.047	44.528	1.231	2.19	699
800	8.417	35.045	1.26	58.5	19.3	8.330	27.260	36.142	44.633	1.329	1.26	799
900	7.913	35.069	1.25	55.9	18.9	7.818	27.356	36.261	44.773	1.422	1.77	899
1000	7.405	35.022	1.31	58.3	19.5	7.303	27.394	36.323	44.859	1.508	1.39	999
1200	6.205	34.959	1.63	72.6	23.6	6.092	27.509	36.496	45.085	1.666	0.98	1198
1400	5.012	34.890	2.02	90.2	28.5	4.890	27.601	36.648	45.294	1.806	1.26	1398
1600	4.218	34.842	2.37	105.7	32.7	4.086	27.652	36.740	45.425	1.930	0.85	1598
1800	3.416	34.801	2.71	121.2	36.8	3.276	27.700	36.832	45.557	2.044	1.01	1798
2000	2.988	34.782	2.94	131.4	39.5	2.836	27.726	36.881	45.628	2.149	0.93	1998
2500	2.149	34.755	3.35	149.7	44.0	1.965	27.778	36.981	45.773	2.384	0.62	2498
3000	1.786	34.736	3.71	165.5	48.2	1.563	27.794	37.020	45.833	2.601	0.31	2997
3500	1.626	34.729	3.89	173.7	50.4	1.356	27.803	37.041	45.865	2.815	0.22	3497
4000	1.468	34.723	4.10	183.2	52.9	1.150	27.813	37.062	45.897	3.027	0.59	3997
4500	1.361	34.717	4.31	192.4	55.4	0.990	27.819	37.077	45.921	3.236	0.22	4497
4584	1.344	34.717	4.34	193.9	55.8	0.964	27.821	37.080	45.925	3.271	---	4581

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
123	17.038	35.373	3.20	142.9	58.7	17.018	25.797	34.338	42.509	123
223	12.558	35.120	2.63	117.4	44.0	12.528	26.580	35.287	43.613	222
399	10.350	34.990	2.39	106.7	38.1	10.302	26.892	35.690	44.103	398
799	8.415	35.047	1.27	56.7	19.4	8.329	27.261	36.144	44.635	798
1199	6.202	34.958	1.61	71.9	23.4	6.089	27.508	36.496	45.085	1197
1699	3.928	34.828	2.38	106.3	32.7	3.791	27.671	36.775	45.474	1697
2199	2.514	---	3.20	142.9	17.3	---	---	---	---	---
2699	1.977	34.746	3.53	157.6	46.1	1.778	27.785	36.999	45.801	2697
3099	1.791	34.737	3.73	166.5	48.5	1.558	27.795	37.021	45.834	3097
3499	1.626	34.729	3.88	173.2	50.2	1.356	27.803	37.040	45.864	3496
3999	1.466	34.723	4.11	183.5	53.0	1.148	27.813	37.062	45.897	3996
4587	1.345	34.718	4.27	190.6	54.9	0.964	27.821	37.081	45.926	---

CDARWIN 19  
DATE: 1/13/87

STA: 101

TIME: 0450

LAT: 1° 4.3S

LON: 49° 8 RE

SUNIC DEPTH 4770 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
6	25.851	35.538	4.64	207.1	99.9	25.850	23.488	31.770	39.698	0.026	---	6
10	25.847	35.538	4.55	203.2	98.0	25.845	23.490	31.771	39.700	0.044	0.54	10
20	25.849	35.538	4.62	206.4	99.6	25.845	23.490	31.772	39.700	0.088	0.93	20
30	25.846	35.537	4.75	212.1	102.3	25.838	23.491	31.773	39.702	0.132	1.86	30
40	25.846	35.538	4.67	208.3	100.5	25.837	23.492	31.774	39.703	0.176	3.07	40
50	25.847	35.537	4.73	211.2	101.8	25.836	23.492	31.773	39.702	0.220	4.16	50
60	25.847	35.538	4.67	208.3	100.5	25.834	23.493	31.775	39.704	0.264	5.00	60
74	25.826	35.537	4.60	205.6	99.1	25.809	23.500	31.783	39.712	0.326	6.14	74
100	24.391	35.455	3.82	170.4	80.1	24.370	23.878	32.198	40.163	0.438	8.50	100
124	20.469	35.405	3.17	141.7	62.1	20.446	24.953	33.385	41.454	0.521	8.82	124
150	18.102	35.371	3.13	139.7	58.6	18.076	25.538	34.044	42.183	0.598	8.51	149
174	15.629	35.257	3.07	136.9	54.7	15.602	26.037	34.628	42.846	0.648	6.90	173
200	14.738	35.214	3.03	135.0	53.0	14.708	26.201	34.825	43.073	0.699	5.65	199
224	13.444	35.159	2.84	126.7	48.4	13.412	26.433	35.105	43.399	0.740	4.49	223
250	12.611	35.108	2.93	130.8	49.1	12.577	26.561	35.266	43.591	0.782	3.93	249
274	11.654	35.056	2.56	114.4	42.0	11.619	26.706	35.449	43.810	0.817	3.36	273
300	11.536	35.050	2.51	112.1	41.1	11.498	26.724	35.472	43.837	0.853	2.71	299
350	10.919	35.009	2.53	112.9	40.8	10.876	26.806	35.580	43.970	0.921	2.08	349
400	10.493	34.996	2.28	101.8	36.5	10.445	26.873	35.665	44.071	0.985	2.22	399
450	10.013	35.006	1.81	80.8	28.7	9.960	26.964	35.776	44.201	1.047	2.27	449
500	9.750	35.024	1.52	67.9	23.9	9.692	27.023	35.847	44.283	1.105	1.80	499
600	9.228	35.031	1.37	61.1	21.3	9.160	27.117	35.963	44.420	1.216	1.70	599
700	8.573	35.058	1.23	55.1	18.9	8.497	27.244	36.119	44.603	1.318	1.74	699
800	8.322	35.049	1.22	54.6	18.7	8.236	27.277	36.164	44.659	1.414	1.74	799
900	7.816	35.070	1.14	50.7	17.1	7.722	27.370	36.280	44.796	1.503	1.30	899
1000	7.110	35.006	1.27	56.7	18.8	7.010	27.422	36.365	44.914	1.587	1.75	996
1196	5.988	34.961	1.54	68.6	22.2	5.877	27.538	36.536	45.135	1.736	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.844	35.536	4.80	214.3	103.3	25.839	23.490	31.772	39.701	23
49	25.847	35.539	4.76	212.5	102.5	25.836	23.493	31.775	39.704	49
90	25.798	35.542	4.70	209.8	101.1	25.780	23.513	31.796	39.726	79
149	17.531	35.421	2.66	118.8	49.3	17.506	25.717	34.241	42.396	149
199	14.765	35.213	2.88	128.6	50.5	14.735	26.195	34.818	43.065	199
298	11.536	35.051	2.69	120.1	44.0	11.498	26.724	35.472	43.838	297
399	10.505	35.001	2.36	105.4	37.8	10.457	26.874	35.665	44.071	398
647	8.888	34.991	1.61	71.9	24.9	8.818	27.141	36.003	44.474	646
799	8.314	35.045	1.20	53.6	18.3	8.228	27.275	36.162	44.658	798
899	7.816	35.069	1.11	49.6	16.7	7.722	27.370	36.279	44.796	898
999	7.121	35.009	1.26	56.3	18.7	7.021	27.423	36.366	44.914	997
1199	5.897	34.954	1.54	68.8	22.2	5.786	27.544	36.546	45.149	---

CDARWIN 19  
DATE: 1/13/87

STA: 102

TIME: 0823

LAT: 1° 23.9S

LON 49° 23.6E

SONIC DEPTH: 5006 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.691	35.573	3.94	176.1	86.2	26.689	23.250	31.511	39.419	0.037	---	8
10	26.675	35.573	3.88	173.1	84.6	26.673	23.256	31.516	39.425	0.046	2.17	10
20	26.548	35.570	3.98	177.6	86.7	26.543	23.294	31.558	39.470	0.092	2.97	20
30	26.493	35.570	3.90	174.2	84.9	26.486	23.312	31.578	39.491	0.138	4.19	30
40	26.469	35.574	3.87	172.9	84.3	26.460	23.324	31.590	39.504	0.184	5.17	40
50	26.397	35.584	3.80	169.6	82.5	26.386	23.355	31.622	39.538	0.229	6.05	50
60	26.249	35.601	3.77	168.3	81.8	26.236	23.415	31.686	39.605	0.274	6.96	60
74	25.903	35.571	3.90	174.3	84.1	25.886	23.501	31.782	39.709	0.337	8.16	74
100	21.102	35.354	2.99	133.6	59.2	21.083	24.742	33.156	41.208	0.442	9.33	100
124	18.278	35.325	2.88	128.3	54.0	18.256	25.458	33.959	42.093	0.511	8.73	124
150	16.754	35.296	2.92	130.2	53.2	16.729	25.806	34.358	42.539	0.571	7.24	149
174	14.891	35.217	3.25	144.9	57.0	14.865	26.170	34.787	43.031	0.621	5.84	173
200	13.919	35.180	3.14	140.4	54.1	13.890	26.350	35.004	43.281	0.668	4.66	199
224	13.152	35.146	3.03	135.3	51.3	13.121	26.482	35.165	43.470	0.707	3.94	223
250	12.571	35.106	3.01	134.4	50.4	12.537	26.568	35.274	43.600	0.748	3.19	249
274	12.287	35.083	3.05	136.0	50.7	12.250	26.606	35.324	43.661	0.784	2.89	273
300	11.642	35.030	3.18	142.2	52.2	11.603	26.688	35.433	43.794	0.822	2.60	299
350	10.995	34.996	2.62	117.1	42.4	10.952	26.782	35.553	43.940	0.891	2.13	349
400	10.507	34.937	3.19	142.5	51.0	10.459	26.824	35.616	44.023	0.957	2.12	399
450	9.823	34.888	3.11	138.8	49.0	9.771	26.904	35.726	44.161	1.021	2.38	449
500	9.663	34.986	1.88	83.7	29.5	9.605	27.009	35.836	44.276	1.081	2.15	499
600	9.383	35.022	1.50	67.0	23.4	9.315	27.085	35.925	44.376	1.194	1.63	599
700	8.937	35.016	1.32	59.0	20.4	8.859	27.154	36.013	44.483	1.301	1.82	699
800	8.439	35.021	1.34	59.8	20.5	8.352	27.237	36.119	44.610	1.401	1.66	799
900	7.628	35.029	1.27	56.8	19.1	7.535	27.365	36.284	44.809	1.494	1.94	899
1000	7.130	35.006	1.30	58.0	19.3	7.030	27.419	36.362	44.909	1.578	1.47	998
1200	5.793	34.922	1.62	72.5	23.3	5.683	27.531	36.539	45.147	1.731	1.66	1198
1400	4.757	34.872	2.06	91.9	28.8	4.638	27.615	36.676	45.333	1.863	0.85	1398
1600	4.051	34.828	2.34	104.2	32.1	3.921	27.658	36.755	45.448	1.986	1.03	1598
1800	3.516	34.806	2.65	118.2	36.0	3.375	27.695	36.821	45.541	2.099	1.23	1798
2000	2.873	34.778	2.94	131.3	39.3	2.723	27.733	36.894	45.647	2.203	0.91	1998
2500	2.202	34.752	3.44	153.4	45.1	2.018	27.772	36.972	45.761	2.438	0.70	2498
3000	1.819	34.738	3.70	165.3	48.2	1.595	27.793	37.017	45.828	2.656	0.31	2997
3500	1.627	34.728	3.93	175.3	50.8	1.357	27.802	37.040	45.864	2.870	0.44	3497
4000	1.473	34.724	4.06	181.4	52.4	1.155	27.813	37.062	45.897	3.082	0.38	3997
4500	1.376	34.719	4.24	189.2	54.5	1.005	27.819	37.077	45.920	3.293	-0.31	4497
4584	1.376	34.719	4.23	188.8	54.4	0.995	27.820	37.078	45.921	3.328	---	4581

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
199	13.834	35.180	3.10	138.4	53.3	13.805	26.368	35.025	43.305	199
398	10.542	34.940	3.14	140.2	50.3	10.494	26.820	35.611	44.016	397
598	9.403	35.020	1.68	70.5	24.7	9.335	27.080	35.919	44.369	597
799	8.447	35.019	1.35	60.3	20.6	8.360	27.234	36.116	44.606	798
1099	6.597	34.992	1.34	59.8	19.6	6.491	27.482	36.450	45.021	1097
1499	4.444	34.851	2.18	97.3	30.3	4.319	27.634	36.711	45.384	1497
2099	2.728	34.776	3.05	136.2	40.6	2.571	27.745	36.914	45.675	2097
2598	2.038	34.746	3.59	160.3	47.0	1.848	27.780	36.990	45.788	2596
3099	1.768	34.733	3.84	171.4	49.9	1.535	27.793	37.021	45.835	3096
3498	1.627	34.728	3.92	175.0	50.7	1.358	27.802	37.040	45.863	3496
3999	1.473	34.723	4.04	180.4	52.1	1.155	27.812	37.061	45.896	3996
4588	1.376	34.718	4.24	189.3	54.5	0.994	27.819	37.077	45.920	---

CDARWIN 19  
DATE: 1/13/87

STA: 103

TIME: 1445

LAT: 1° 42.5S

LON: 49° 37.7E

SONIC DEPTH: 4570 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.702	35.522	4.67	208.5	102.0	26.700	23.209	31.470	39.378	0.037	---	8
10	26.703	35.522	4.70	209.7	102.6	26.701	23.209	31.470	39.378	0.047	2.36	10
20	26.687	35.521	4.73	211.1	103.2	26.682	23.214	31.475	39.384	0.093	3.23	20
30	26.592	35.521	4.66	208.1	101.6	26.585	23.245	31.508	39.420	0.140	4.37	30
40	26.545	35.528	4.66	208.2	101.6	26.536	23.265	31.530	39.443	0.186	5.46	40
50	26.455	35.542	4.60	205.3	100.0	26.444	23.305	31.572	39.487	0.232	6.40	50
60	26.338	35.563	4.57	203.9	99.2	26.325	23.358	31.628	39.545	0.278	7.30	60
74	26.082	35.582	4.57	204.0	98.8	26.065	23.454	31.730	39.653	0.341	8.63	74
100	21.373	35.356	3.37	150.3	67.0	21.354	24.670	33.075	41.119	0.446	9.92	100
124	17.855	35.315	3.13	139.9	58.4	17.834	25.555	34.070	42.217	0.511	9.05	124
150	15.049	35.227	3.34	149.1	58.8	15.026	26.142	34.753	42.991	0.557	7.21	149
174	14.035	35.184	3.29	141.0	56.8	14.010	26.328	34.977	43.250	0.610	5.16	173
200	13.556	35.165	3.19	142.6	54.6	13.528	26.414	35.082	43.372	0.655	3.76	199
224	12.993	35.131	3.10	138.5	52.4	12.962	26.502	35.192	43.503	0.693	3.03	223
250	12.574	35.103	3.33	148.8	55.8	12.540	26.565	35.271	43.597	0.734	2.69	249
274	12.368	35.087	3.36	149.9	56.0	12.331	26.594	35.308	43.642	0.770	2.53	273
300	12.033	35.059	3.42	152.5	56.5	11.994	26.636	35.365	43.712	0.809	2.50	299
350	11.199	34.991	3.43	153.1	55.7	11.155	26.740	35.503	43.883	0.880	2.22	349
400	10.734	34.953	3.24	144.6	52.1	10.685	26.796	35.579	43.976	0.948	2.52	399
450	9.843	34.917	2.81	125.4	44.3	9.791	26.923	35.743	44.177	1.012	2.75	449
500	9.534	35.007	1.75	77.9	27.3	9.477	27.046	35.879	44.324	1.070	1.96	499
600	9.443	35.022	1.51	67.5	23.6	9.374	27.075	35.912	44.361	1.181	1.61	599
700	8.817	35.037	1.36	60.6	20.9	8.740	27.190	36.054	44.528	1.287	1.51	699
800	8.349	35.026	1.27	56.9	19.4	8.263	27.255	36.140	44.635	1.387	2.01	799
900	7.216	34.997	1.28	57.2	19.0	7.126	27.399	36.337	44.880	1.476	1.77	899
1000	6.922	34.992	1.34	59.6	19.7	6.824	27.437	36.390	44.946	1.558	1.44	998
1196	5.505	34.914	1.66	74.2	23.7	5.398	27.560	36.582	45.204	1.705	---	1194

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-C kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
14	26.711	35.523	5.00	223.2	109.2	26.708	23.207	31.468	39.376	13
49	26.470	35.541	4.92	219.6	107.0	26.459	23.299	31.566	39.480	49
99	20.146	35.366	3.54	158.0	68.9	20.128	25.008	33.450	41.529	99
123	17.773	35.312	2.77	123.7	51.5	17.752	25.573	34.090	42.240	123
298	12.064	35.063	3.31	147.8	54.8	12.025	26.634	35.361	43.707	298
449	9.853	34.917	2.88	128.6	45.4	9.801	26.921	35.742	44.175	448
599	9.439	35.022	1.57	70.1	24.5	9.370	27.075	35.913	44.361	598
749	8.676	35.029	1.37	61.2	21.1	8.594	27.206	36.077	44.557	748
899	7.220	34.993	1.31	58.5	19.5	7.130	27.395	36.333	44.876	898
999	6.877	34.993	1.26	56.3	18.6	6.779	27.444	36.398	44.957	997
1124	6.023	34.920	1.59	71.0	23.0	5.919	27.500	36.496	45.094	1122
1199	5.478	34.915	1.71	76.3	24.4	5.371	27.564	36.587	45.210	---

CDARWIN 19  
DATE: 1/13/87

STA: 104

LAT: 2° 4.9S  
TIME: 1904

LON: 49° 54.3E

SONIC DEPTH: 5063 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynam	N2 cph	Z m
8	26.768	35.524	3.52	157.1	76.9	26.768	23.192	31.452	39.359	0.037	---	8
10	26.763	35.524	3.56	159.0	77.8	26.761	23.191	31.450	39.357	0.047	2.95	10
20	26.768	35.525	3.55	158.6	77.6	26.763	23.194	31.453	39.361	0.094	3.78	20
30	26.744	35.527	3.56	159.1	77.9	26.737	23.200	31.460	39.368	0.140	4.95	30
40	26.495	35.543	3.38	150.7	73.5	26.486	23.292	31.558	39.472	0.187	5.80	40
50	26.222	35.547	3.57	159.3	77.3	26.211	23.382	31.654	39.574	0.232	6.44	50
60	26.105	35.566	3.63	162.3	78.6	26.092	23.434	31.709	39.631	0.277	7.15	60
74	25.346	35.511	3.57	159.5	76.3	25.330	23.628	31.923	39.864	0.339	8.41	74
100	20.094	35.404	3.47	154.8	67.4	20.075	25.051	33.494	41.573	0.439	9.46	100
124	19.482	35.396	2.60	116.0	49.9	19.469	25.207	33.668	41.766	0.508	8.89	124
150	14.976	35.217	2.95	131.6	51.9	14.953	26.151	34.785	43.005	0.567	7.42	149
174	14.010	35.189	3.07	137.0	52.9	13.985	26.337	34.987	43.261	0.611	5.58	173
200	13.218	35.147	3.04	135.7	51.6	13.190	26.469	35.149	43.452	0.654	3.95	199
224	13.002	35.137	3.09	137.9	52.2	12.971	26.505	35.194	43.505	0.692	2.76	223
250	12.671	35.112	3.18	142.1	53.4	12.637	26.553	35.255	43.577	0.733	2.32	249
274	12.485	35.100	2.96	132.3	49.5	12.448	26.580	35.290	43.620	0.770	2.29	273
300	12.219	35.081	3.27	146.0	54.3	12.179	26.618	35.339	43.678	0.809	2.49	299
350	11.269	34.997	3.41	152.4	55.5	11.225	26.733	35.493	43.869	0.881	2.82	349
400	10.094	34.894	3.26	145.7	51.7	10.047	26.862	35.672	44.095	0.948	2.70	399
450	9.685	34.928	2.52	112.3	39.5	9.633	26.958	35.786	44.225	1.009	2.36	449
500	9.106	34.925	2.31	103.1	35.8	9.050	27.052	35.904	44.367	1.067	2.12	499
600	9.127	35.013	1.39	62.1	21.6	9.080	27.119	35.970	44.432	1.175	1.37	599
700	8.712	35.017	1.42	63.4	21.8	8.635	27.190	36.060	44.538	1.279	1.55	699
800	8.514	35.048	1.30	58.0	19.9	8.427	27.247	36.125	44.612	1.378	1.67	799
900	7.119	34.972	1.42	63.3	21.0	7.030	27.393	36.336	44.884	1.469	2.13	899
1000	6.875	34.993	1.17	52.5	17.3	6.777	27.445	36.399	44.958	1.550	0.91	998
1200	5.519	34.910	1.72	77.0	24.6	5.412	27.555	36.576	45.197	1.702	1.85	1198
1400	4.705	34.871	2.00	89.3	28.0	4.587	27.620	36.683	45.343	1.830	0.70	1398
1600	4.012	34.825	2.28	101.9	31.4	3.883	27.659	36.759	45.453	1.953	1.23	1598
1800	3.363	34.794	2.73	121.9	37.0	3.224	27.700	36.834	45.562	2.064	0.96	1798
2000	2.803	34.780	3.04	135.8	40.6	2.654	27.741	36.906	45.662	2.165	0.44	1998
2500	2.127	34.746	3.54	157.9	46.4	1.944	27.773	36.977	45.770	2.399	0.73	2498
3000	1.796	34.733	3.82	170.4	49.6	1.572	27.791	37.016	45.828	2.617	0.49	2997
3500	1.639	34.728	3.93	175.3	50.8	1.369	27.802	37.038	45.862	2.831	0.44	3497
4000	1.502	34.723	4.04	180.2	52.1	1.183	27.811	37.058	45.891	3.044	0.31	3997
4500	1.363	34.718	4.26	190.1	54.8	0.992	27.820	37.078	45.921	3.254	0.38	4497
4588	1.350	34.717	4.26	190.0	54.7	0.969	27.820	37.080	45.924	3.291	---	4585

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
199	13.245	35.146	3.07	137.1	52.1	13.217	26.463	35.142	43.444	198
399	10.082	34.895	3.29	146.9	52.1	10.035	26.864	35.675	44.099	398
699	8.695	35.018	1.42	63.4	21.8	8.618	27.193	36.063	44.543	698
899	7.116	34.971	1.36	60.7	20.2	7.027	27.392	36.335	44.883	897
1299	4.927	34.883	1.92	85.7	27.0	4.816	27.604	36.655	45.304	1297
1799	3.366	34.795	2.77	123.7	37.5	3.227	27.700	36.835	45.562	1797
2199	2.540	34.769	3.18	142.0	42.1	2.377	27.756	36.936	45.706	2196
2699	1.918	34.739	3.67	163.8	47.9	1.720	27.784	37.001	45.806	2697
3099	1.748	34.731	3.82	170.5	49.6	1.516	27.793	37.021	45.837	3097
3499	1.639	34.729	3.91	174.6	50.6	1.369	27.802	37.039	45.862	3496
3999	1.501	34.724	4.05	180.8	52.3	1.182	27.811	37.058	45.892	3996
4591	1.349	34.716	4.29	191.5	55.1	0.968	27.819	37.079	45.924	---

CDARWIN 19  
DATE: 1/14/87

STA: 105  
TIME: 0425

LAT: 2° 17.0S

LOD: 49° 1.2E

SONIC DEPTH: 5006 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	26.487	35.586	4.51	201.1	98.1	26.485	23.325	31.590	39.503	0.036	---	8
10	26.447	35.583	4.49	200.6	97.8	26.445	23.336	31.602	39.516	0.045	1.83	10
20	26.392	35.581	4.44	198.4	96.6	26.388	23.352	31.620	39.535	0.091	3.64	20
30	26.341	35.580	4.41	197.1	95.8	26.334	23.368	31.637	39.554	0.136	5.15	30
40	26.307	35.577	4.41	196.7	95.6	26.298	23.377	31.647	39.565	0.181	6.30	40
50	26.239	35.569	4.30	192.1	93.3	26.228	23.393	31.665	39.584	0.226	7.26	50
60	26.141	35.566	4.42	197.1	95.6	26.127	23.422	31.697	39.618	0.271	8.13	60
74	25.974	35.582	4.36	194.8	94.2	25.958	23.473	31.751	39.677	0.334	9.37	74
100	18.135	35.324	3.62	161.7	67.8	18.118	25.492	33.997	42.135	0.428	10.01	100
124	15.816	35.260	3.19	142.6	57.2	15.796	25.995	34.579	42.791	0.481	8.44	124
150	14.373	35.204	3.39	151.4	58.9	14.351	26.271	34.908	43.169	0.531	6.19	150
174	13.418	35.156	3.54	158.2	60.4	13.393	26.434	35.107	43.402	0.571	4.04	173
200	13.246	35.149	3.44	153.8	58.5	13.218	26.465	35.144	43.446	0.613	3.03	199
224	12.679	35.116	3.46	154.5	58.0	12.649	26.553	35.255	43.577	0.651	2.52	223
250	12.542	35.108	3.26	145.4	54.5	12.508	26.575	35.282	43.610	0.691	2.23	249
274	12.302	35.091	2.95	131.7	49.1	12.266	26.609	35.326	43.663	0.727	2.17	273
300	12.030	35.069	3.18	141.8	52.5	11.991	26.645	35.373	43.720	0.766	2.18	299
350	11.237	34.993	3.62	161.7	58.9	11.193	26.735	35.497	43.874	0.837	2.46	349
400	10.368	34.922	3.49	155.9	55.7	10.320	26.836	35.635	44.047	0.905	2.71	399
450	9.424	34.863	3.60	160.7	56.2	9.373	26.951	35.790	44.241	0.967	2.56	449
500	9.064	34.894	2.59	115.7	40.1	9.009	27.034	35.889	44.354	1.026	2.35	499
600	8.800	34.975	1.76	78.8	27.2	8.734	27.142	36.007	44.482	1.133	1.57	599
700	8.495	35.017	1.48	66.0	22.6	8.419	27.224	36.103	44.591	1.233	1.69	699
800	7.969	35.017	1.34	60.0	20.3	7.885	27.305	36.208	44.718	1.328	1.67	799
900	7.070	34.989	1.49	66.4	22.0	6.981	27.413	36.358	44.908	1.415	1.70	899
1000	6.981	35.018	1.27	56.6	18.7	6.882	27.449	36.398	44.952	1.495	1.26	999
1200	5.625	34.921	1.67	74.8	24.0	5.517	27.551	36.567	45.183	1.645	1.52	1198
1400	4.873	34.880	1.98	88.4	27.8	4.753	27.609	36.663	45.315	1.775	0.70	1398
1600	4.314	34.843	2.27	101.2	31.4	4.181	27.642	36.726	45.406	1.900	0.82	1598
1800	3.316	34.780	2.88	128.8	39.0	3.178	27.693	36.830	45.560	2.015	1.01	1798
2000	2.715	34.764	3.16	141.1	42.1	2.567	27.736	36.905	45.666	2.118	0.93	1998
2500	2.224	34.757	3.37	150.5	44.3	2.039	27.774	36.973	45.761	2.350	0.66	2498
3000	1.784	34.735	3.79	169.0	49.2	1.561	27.793	37.019	45.832	2.568	0.31	2997
3500	1.648	34.730	3.91	174.6	50.6	1.378	27.803	37.039	45.861	2.782	0.00	3497
4000	1.518	34.726	4.08	182.3	52.7	1.198	27.812	37.058	45.891	2.995	0.31	3997
4500	1.347	34.719	4.33	193.3	55.6	0.976	27.821	37.080	45.925	3.204	0.38	4497
4588	1.341	34.719	4.35	194.3	55.9	0.961	27.822	37.082	45.927	3.241	---	4585

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
25	26.363	35.580	4.77	212.9	103.6	26.357	23.361	31.629	39.546	25
376	10.968	34.970	3.46	154.5	55.9	10.921	26.767	35.540	43.928	375
748	8.347	35.042	1.33	59.4	20.3	8.267	27.267	36.152	44.646	747
949	7.083	35.009	1.31	58.5	19.4	6.989	27.428	36.372	44.921	948
1399	4.873	34.881	1.96	87.5	27.5	4.753	27.610	36.664	45.316	1397
1999	2.713	34.764	3.16	141.1	42.1	2.565	27.736	36.906	45.667	1997
2399	2.353	34.763	3.29	146.9	43.4	2.175	27.768	36.959	45.740	2396
2798	1.889	34.740	3.70	165.2	48.2	1.683	27.788	37.007	45.813	2796
3190	1.717	34.733	3.87	172.8	50.2	1.477	27.798	37.028	45.846	3187
3599	1.635	34.729	3.95	176.3	51.1	1.355	27.803	37.041	45.865	3596
4000	1.518	34.726	4.06	181.3	52.4	1.198	27.812	37.058	45.890	3997
4592	1.342	34.718	4.33	193.3	55.6	0.961	27.821	37.081	45.926	---

CDARWIN 19  
DATE: 1/14/87

STA: 106

LAT: 2° 32.7S  
TIME: 1754

LON: 47° 29.0E

SONIC DEPTH: 4837 m

PR	T	S	O2	O2	O2 SAT	THETA	SIG-0	SIG-2	SIG-4	D	M2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	27.490	35.554	3.70	165.4	82.0	27.488	22.980	31.222	39.113	0.039	---	8
10	27.495	35.554	3.70	165.4	82.0	27.493	22.979	31.220	39.111	0.049	5.78	10
20	27.495	35.554	3.76	168.0	83.3	27.490	22.980	31.221	39.112	0.098	7.10	20
30	27.491	35.555	3.79	169.4	84.0	27.484	22.982	31.224	39.115	0.146	8.15	30
40	27.485	35.556	3.83	171.2	84.8	27.476	22.986	31.228	39.119	0.195	9.00	40
50	27.355	35.553	3.85	171.7	84.9	27.343	23.026	31.271	39.165	0.244	9.78	50
60	26.772	35.552	3.90	174.2	85.3	26.758	23.213	31.472	39.379	0.292	10.49	60
74	20.606	35.294	3.78	168.7	74.1	20.592	24.830	33.258	41.325	0.348	11.05	74
100	14.140	35.194	3.41	152.2	59.0	14.125	26.312	34.957	43.225	0.408	9.41	100
124	13.626	35.174	3.19	142.2	54.5	13.608	26.404	35.068	43.355	0.448	6.80	124
150	13.306	35.157	3.12	139.1	53.0	13.285	26.457	35.134	43.433	0.490	3.69	150
174	13.024	35.140	3.01	134.2	50.8	13.000	26.502	35.190	43.499	0.529	2.61	174
200	12.600	35.104	3.14	140.2	52.6	12.573	26.559	35.264	43.589	0.569	2.56	199
224	12.258	35.078	3.36	150.0	55.9	12.228	26.606	35.325	43.663	0.605	2.55	223
250	11.849	35.059	3.34	149.1	55.0	11.817	26.670	35.406	43.759	0.643	2.33	249
274	11.597	35.041	3.13	139.9	51.3	11.562	26.704	35.450	43.813	0.677	2.18	273
300	11.313	35.002	3.44	153.5	56.0	11.275	26.727	35.485	43.860	0.713	2.00	299
350	10.781	34.959	3.36	149.8	54.0	10.738	26.791	35.572	43.967	0.781	2.06	349
400	10.104	34.894	3.39	151.3	53.7	10.057	26.860	35.670	44.093	0.846	2.15	399
450	9.526	34.859	3.07	136.8	48.0	9.475	26.931	35.766	44.213	0.908	2.02	449
500	9.220	34.861	2.82	125.7	43.8	9.164	26.983	35.832	44.291	0.968	1.96	499
600	8.615	34.907	2.20	98.2	33.7	8.550	27.117	35.992	44.476	1.079	1.91	599
700	8.632	35.013	1.27	56.7	19.5	8.556	27.200	36.072	44.555	1.182	1.55	699
800	8.109	34.997	1.40	62.3	21.2	8.024	27.268	36.165	44.670	1.279	1.52	799
900	7.772	35.021	1.21	54.1	16.2	7.678	27.339	36.251	44.770	1.371	1.49	899
1000	7.169	35.005	1.23	55.1	18.3	7.069	27.413	36.354	44.899	1.458	1.59	999
1200	5.909	34.920	1.68	75.2	24.3	5.798	27.515	36.517	45.120	1.614	1.44	1198
1400	4.791	34.853	2.10	93.9	29.5	4.672	27.596	36.655	45.312	1.751	1.12	1398
1600	3.946	34.795	2.62	116.8	35.9	3.818	27.642	36.745	45.444	1.876	1.34	1598
1800	3.073	34.771	3.07	137.1	41.3	2.938	27.708	36.858	45.600	1.987	1.17	1798
2000	2.763	34.774	3.09	137.9	41.2	2.615	27.740	36.907	45.665	2.085	0.62	1998
2500	2.107	34.753	3.43	153.3	45.0	1.924	27.780	36.985	45.779	2.314	0.44	2498
3000	1.774	34.735	3.78	168.7	49.1	1.551	27.794	37.020	45.834	2.530	0.22	2998
3500	1.616	34.730	3.91	174.5	50.6	1.347	27.805	37.043	45.867	2.743	0.22	3497
4000	1.530	34.727	4.07	181.6	52.5	1.210	27.812	37.058	45.889	2.955	0.38	3997
4500	1.308	34.718	4.33	193.5	55.6	0.939	27.823	37.084	45.931	3.164	0.44	4497
4582	1.292	34.718	4.39	195.8	56.3	0.914	27.825	37.087	45.935	3.197	---	4579

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
199	12.608	35.105	3.25	145.1	54.4	12.579	26.559	35.263	43.588	198
499	9.222	34.860	2.70	120.5	42.0	9.166	26.982	35.831	44.290	498
799	8.130	35.002	1.39	62.1	21.1	8.045	27.269	36.165	44.669	798
999	7.171	35.004	1.27	56.7	18.9	7.071	27.412	36.353	44.898	998
1398	4.808	34.855	2.07	92.4	29.0	4.669	27.596	36.654	45.310	1396
1899	2.851	34.775	3.02	134.8	40.3	2.710	27.732	36.894	45.647	1897
2399	2.192	34.754	3.44	153.6	45.2	2.017	27.773	36.973	45.762	2396
2799	1.885	34.745	3.68	164.3	48.0	1.679	27.792	37.011	45.818	2797
3199	1.708	34.732	3.89	173.7	50.5	1.467	27.798	37.029	45.847	3197
3598	1.592	34.730	3.97	177.2	51.3	1.313	27.807	37.047	45.873	3596
3999	1.530	34.726	4.04	180.4	52.2	1.210	27.811	37.057	45.888	3996
4585	1.292	34.718	4.38	195.5	56.2	0.913	27.824	37.087	45.935	---



CDARWIN 19  
DATE: 1/15/87

STA: 107

TIME: 0649

LAT: 2° 49.8S

LON: 46° 0.1E

SONIC DEPTH: 4648 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	28.087	35.560	3.66	163.3	81.7	28.085	22.790	31.018	38.895	0.040	---	8
10	28.083	35.561	3.64	162.5	81.3	28.081	22.792	31.020	38.898	0.051	2.05	10
20	27.972	35.558	3.57	159.3	79.6	27.967	22.827	31.058	38.938	0.101	2.57	20
30	27.931	35.558	3.67	163.9	81.8	27.924	22.842	31.073	38.954	0.151	3.62	30
40	27.904	35.557	3.64	162.4	81.0	27.895	22.850	31.082	38.964	0.201	5.02	40
50	27.875	35.556	3.66	163.3	81.4	27.863	22.860	31.092	38.975	0.252	6.52	50
60	27.792	35.558	3.73	166.7	83.0	27.778	22.889	31.124	39.008	0.302	7.81	60
74	27.279	35.544	3.54	157.9	78.0	27.262	23.046	31.293	39.189	0.370	9.38	74
100	24.235	35.448	3.42	152.8	71.7	24.214	23.918	32.243	40.212	0.491	11.24	100
124	15.559	35.269	3.36	150.2	59.9	15.540	26.060	34.653	42.873	0.562	10.36	123
150	14.026	35.194	3.29	147.0	56.8	14.004	26.337	34.987	43.260	0.610	7.92	149
174	12.920	35.120	3.55	158.4	59.8	12.896	26.508	35.200	43.513	0.649	5.36	173
200	12.494	35.091	3.66	163.6	61.2	12.467	26.570	35.279	43.608	0.689	3.50	199
224	11.822	35.053	3.03	135.3	49.9	11.793	26.670	35.406	43.761	0.724	2.91	223
250	11.383	35.011	3.30	147.5	53.9	11.351	26.720	35.475	43.846	0.761	2.33	249
274	11.306	35.015	3.13	139.9	51.0	11.272	26.738	35.496	43.870	0.794	1.96	273
300	11.132	35.006	3.03	135.3	49.2	11.095	26.763	35.529	43.910	0.829	1.73	299
350	10.529	34.935	3.33	148.5	53.2	10.487	26.817	35.608	44.014	0.895	1.80	349
400	10.212	34.919	3.01	134.3	47.8	10.165	26.861	35.666	44.084	0.960	1.63	399
450	10.035	34.925	2.86	127.8	45.3	9.982	26.897	35.710	44.135	1.023	1.85	449
500	9.276	34.845	2.82	125.9	43.9	9.220	26.962	35.808	44.265	1.084	2.25	499
550	8.662	34.885	2.19	97.9	33.6	8.497	27.108	35.986	44.472	1.196	1.82	599
700	8.046	34.871	1.93	86.2	29.2	7.973	27.177	36.078	44.587	1.300	1.69	699
800	7.867	34.946	1.39	62.1	21.0	7.784	27.264	36.173	44.688	1.397	1.58	799
900	7.784	35.028	1.28	57.4	19.4	7.690	27.342	36.254	44.772	1.489	1.51	899
1000	6.912	34.939	1.48	66.2	21.9	6.814	27.397	36.351	44.908	1.575	1.52	998
1200	5.973	34.902	1.76	78.4	25.3	5.862	27.493	36.492	45.093	1.734	1.24	1198
1400	4.880	34.841	2.19	98.0	30.8	4.760	27.577	36.631	45.284	1.877	1.36	1398
1600	3.892	34.796	2.72	121.7	37.4	3.764	27.648	36.754	45.455	2.003	1.38	1598
1800	3.104	34.771	2.98	133.0	40.1	2.968	27.705	36.854	45.594	2.113	0.93	1798
2000	2.627	34.761	3.21	143.5	42.7	2.481	27.741	36.915	45.681	2.213	0.88	1998
2500	2.046	34.746	3.54	158.0	46.3	1.864	27.779	36.988	45.785	2.439	0.49	2498
3000	1.730	34.734	3.79	169.2	49.2	1.508	27.796	37.025	45.841	2.652	0.22	2997
3500	1.600	34.730	3.97	177.1	51.3	1.331	27.806	37.045	45.870	2.863	0.00	3497
4000	1.491	34.725	4.13	184.2	53.2	1.172	27.813	37.061	45.894	3.075	0.50	3997
4500	1.252	34.716	4.52	202.0	58.0	0.884	27.825	37.089	45.939	3.279	0.22	4497
4588	1.246	34.716	4.53	202.4	58.1	0.869	27.826	37.091	45.941	3.315	---	4585

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
198	12.517	35.095	3.57	159.4	59.7	12.490	26.568	35.277	43.605	198
399	10.222	34.921	3.16	141.1	50.2	10.175	26.861	35.665	44.083	398
599	8.568	34.883	2.51	112.1	38.4	8.503	27.105	35.983	44.469	598
899	7.794	35.030	1.30	58.0	19.6	7.700	27.342	36.254	44.771	898
1399	4.887	34.843	2.11	94.2	29.7	4.767	27.578	36.632	45.284	1397
1899	2.914	---	---	---	---	---	---	---	---	---
2399	2.148	34.753	3.46	154.5	45.4	1.974	27.776	36.978	45.770	2397
2799	1.825	34.741	3.69	164.7	48.0	1.620	27.794	37.016	45.826	2796
3199	1.671	34.732	3.90	174.1	50.5	1.431	27.800	37.033	45.853	3196
3699	1.585	34.729	3.97	177.2	51.3	1.296	27.807	37.048	45.875	3696
4199	1.389	34.722	4.36	194.6	56.1	1.051	27.819	37.073	45.914	4196
4591	1.245	34.717	4.49	200.4	57.6	0.867	27.827	37.092	45.942	---

CDARWIN 19  
DATE: 1/15/87

STA: 108

TIME: 1722

LAT: 3° 1.6S

LON: 44° 53.4E

SONIC DEPTH: 4266 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.381	35.408	4.78	213.3	105.4	27.379	22.906	31.151	39.046	0.040	---	8
10	27.382	35.407	4.73	211.2	104.4	27.380	22.905	31.150	39.045	0.049	3.03	10
20	27.381	35.408	4.69	209.2	103.4	27.376	22.906	31.152	39.047	0.099	3.36	20
30	27.356	35.419	4.77	212.8	105.2	27.349	22.923	31.170	39.065	0.149	3.77	30
40	27.019	35.507	4.93	220.3	108.3	27.010	23.099	31.352	39.254	0.197	4.15	40
50	26.652	35.584	4.72	210.9	103.1	26.641	23.275	31.536	39.446	0.244	4.54	50
60	26.559	35.575	4.72	210.5	102.7	26.545	23.297	31.561	39.473	0.290	5.05	60
74	26.425	35.556	4.70	210.0	102.3	26.408	23.327	31.594	39.509	0.354	6.24	74
100	25.566	35.497	4.53	202.3	97.1	25.544	23.552	31.842	39.778	0.471	8.70	100
124	22.767	35.385	3.89	173.9	79.4	22.742	24.302	32.667	40.674	0.570	9.91	123
150	16.756	35.261	3.33	148.8	60.7	16.732	25.780	34.331	42.513	0.652	9.77	149
174	14.453	35.199	3.14	140.2	54.7	14.427	26.251	34.884	43.143	0.699	7.95	173
200	13.031	35.113	3.43	153.0	57.9	13.003	26.481	35.169	43.478	0.742	5.70	199
224	12.257	35.060	3.59	160.0	59.6	12.227	26.593	35.312	43.650	0.779	3.80	223
250	11.752	35.023	3.85	171.8	63.3	11.720	26.661	35.401	43.758	0.817	3.06	249
274	11.356	34.986	4.09	182.5	66.6	11.321	26.706	35.463	43.835	0.851	2.75	273
300	10.749	34.933	3.68	164.2	59.1	10.712	26.775	35.557	43.954	0.887	2.56	299
350	10.025	34.876	3.58	159.9	56.7	9.984	26.858	35.672	44.098	0.951	2.17	349
400	9.620	34.866	3.14	140.0	49.2	9.574	26.920	35.760	44.193	1.013	1.82	399
450	9.317	34.855	2.95	131.6	45.9	9.266	26.962	35.806	44.261	1.073	1.69	449
500	9.011	34.849	2.63	117.6	40.8	8.956	27.008	35.865	44.333	1.131	1.86	499
600	8.404	34.867	2.19	97.9	33.5	8.340	27.118	36.003	44.496	1.241	1.96	599
700	8.408	35.010	1.43	63.8	21.8	8.333	27.231	36.114	44.606	1.342	1.54	699
800	7.908	34.984	1.41	62.8	21.2	7.824	27.288	36.194	44.707	1.437	1.34	799
900	7.638	35.020	1.29	57.7	19.4	7.545	27.357	36.275	44.800	1.527	1.42	899
1000	7.315	35.008	1.27	56.8	19.0	7.214	27.396	36.330	44.869	1.613	1.30	998
1190	5.967	34.901	1.68	74.9	24.2	5.857	27.493	36.492	45.093	1.765	---	1188

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
23	27.380	35.408	4.93	220.1	108.8	27.375	22.907	31.153	39.047	23
49	26.657	35.585	4.74	211.6	103.5	26.646	23.273	31.535	39.444	49
99	25.600	35.500	4.46	199.1	95.6	25.578	23.544	31.832	39.768	98
149	17.186	35.310	2.79	124.6	51.3	17.161	25.715	34.251	42.419	148
250	11.717	35.027	3.67	163.8	60.3	11.685	26.670	35.411	43.770	249
349	10.030	34.878	3.52	157.1	55.7	9.989	26.859	35.672	44.098	348
449	9.316	34.856	2.99	133.5	46.6	9.266	26.963	35.807	44.262	448
599	8.404	34.866	2.24	100.0	34.2	8.340	27.117	36.002	44.495	598
724	8.422	35.035	1.31	58.5	20.0	8.344	27.249	36.131	44.622	722
903	7.624	35.019	1.27	56.7	19.1	7.531	27.358	36.277	44.803	901
1049	6.811	34.947	1.51	67.4	22.2	6.708	27.417	36.376	44.938	1047
1199	5.916	34.896	1.67	74.6	24.1	5.805	27.495	36.498	45.101	---

CDARWIN 19  
DATE: 1/16/87

STA: 109

TIME: 0013

LAT: 3° 14.6S

LON: 43° 55.9E

SONIC DEPTH: 3864 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	26.608	35.529	4.32	192.9	94.2	26.606	23.244	31.506	39.417	0.037	---	8
10	26.608	35.529	4.25	189.9	92.8	26.606	23.244	31.507	39.418	0.046	3.35	10
20	26.592	35.529	4.47	199.5	97.4	26.587	23.249	31.513	39.424	0.092	3.72	20
30	26.513	35.531	4.55	202.9	99.0	26.508	23.277	31.542	39.455	0.139	4.04	30
40	26.376	35.537	4.53	202.5	98.5	26.367	23.325	31.594	39.510	0.185	4.38	40
50	26.005	35.538	4.48	199.9	96.6	25.994	23.443	31.721	39.646	0.230	4.64	50
60	25.586	35.544	4.40	196.4	94.3	25.573	23.579	31.867	39.802	0.274	4.82	60
74	24.594	35.486	4.29	191.7	90.5	24.578	23.838	32.153	40.113	0.332	4.94	74
100	24.143	35.461	4.17	186.1	87.1	24.122	23.956	32.283	40.254	0.437	6.49	100
124	23.620	35.412	4.09	182.6	84.7	23.594	24.075	32.417	40.402	0.531	8.20	124
150	21.910	35.382	3.92	174.9	78.7	21.880	24.543	32.933	40.963	0.630	9.72	149
174	14.955	35.255	3.78	168.7	66.5	14.929	26.185	34.800	43.040	0.691	9.08	173
200	12.630	35.106	4.26	190.0	71.3	12.603	26.555	35.259	43.583	0.734	7.09	199
224	11.855	35.031	4.21	187.9	69.3	11.826	26.647	35.383	43.736	0.770	4.83	223
250	11.243	34.978	3.99	178.2	64.9	11.212	26.721	35.481	43.859	0.807	3.29	249
274	10.611	34.930	3.81	170.2	61.1	10.578	26.797	35.584	43.987	0.839	2.79	273
300	10.015	34.862	4.02	179.6	63.6	9.980	26.848	35.661	44.088	0.872	2.33	299
350	9.732	34.855	3.67	163.7	57.6	9.692	26.891	35.717	44.155	0.934	1.37	340
400	9.834	34.911	3.43	153.0	54.0	9.788	26.919	35.740	44.173	0.996	1.20	399
450	9.625	34.884	2.98	132.9	46.7	9.573	26.934	35.764	44.207	1.056	1.39	449
500	9.438	34.896	2.90	129.7	45.4	9.381	26.975	35.814	44.264	1.116	1.49	499
600	8.743	34.848	2.60	115.8	39.9	8.678	27.051	35.921	44.400	1.232	1.95	599
700	8.392	34.957	1.82	81.3	27.8	8.317	27.192	36.077	44.570	1.339	2.18	699
800	7.928	35.004	1.43	63.9	21.6	7.844	27.301	36.206	44.718	1.434	1.61	799
900	7.525	35.009	1.36	60.8	20.4	7.433	27.365	36.289	44.818	1.523	1.57	899
1000	6.720	34.973	1.40	62.5	20.6	6.623	27.450	36.412	44.977	1.605	1.44	998
1200	6.430	34.975	1.40	62.7	20.5	6.315	27.492	36.468	45.048	1.760	0.88	1198
1400	4.909	34.841	2.13	95.1	29.9	4.789	27.574	36.627	45.278	1.907	1.41	1398
1600	3.936	34.798	2.54	113.4	34.9	3.808	27.646	36.749	45.448	2.034	1.28	1598
1800	3.238	34.769	2.93	130.9	39.5	3.101	27.692	36.833	45.567	2.146	1.14	1798
2000	2.685	34.764	3.19	142.5	42.5	2.538	27.738	36.910	45.672	2.248	0.96	1998
2500	1.919	34.745	3.53	157.6	46.0	1.740	27.787	37.003	45.807	2.469	0.58	2498
3000	1.790	34.739	3.69	164.9	48.0	1.566	27.796	37.021	45.834	2.678	0.22	2997
3500	1.766	34.737	3.83	171.1	49.8	1.493	27.799	37.029	45.846	2.895	0.00	3497
3906	1.313	34.722	4.30	191.7	55.2	1.009	27.821	37.078	45.921	3.070	---	3903

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
23	26.573	35.528	4.61	205.8	100.5	26.568	23.255	31.519	39.431	23
349	9.729	34.856	3.61	161.2	56.7	9.689	26.893	35.719	44.157	348
599	8.764	34.850	2.64	117.9	40.6	8.699	27.049	35.918	44.397	598
1100	6.593	34.980	1.37	61.2	20.1	6.487	27.473	36.442	45.013	1098
1499	4.528	34.840	2.22	99.1	30.9	4.402	27.616	36.689	45.358	1497
1999	2.679	34.765	3.19	142.4	42.4	2.532	27.739	36.911	45.674	1997
2399	2.003	34.749	3.53	157.6	46.1	1.831	27.784	36.994	45.793	2397
2800	1.791	34.740	3.70	165.2	48.1	1.587	27.795	37.019	45.831	2797
3200	1.793	34.738	3.75	167.4	48.8	1.550	27.796	37.023	45.836	3197
3600	1.769	34.736	3.82	170.5	49.6	1.485	27.799	37.029	45.846	3597
3859	1.311	34.721	4.29	191.5	55.1	1.012	27.820	37.077	45.920	3856
3909	1.312	34.721	4.27	190.6	54.8	1.008	27.821	37.078	45.920	---

CDARWIN 19  
DATE: 1/16/87

STA: 110

TIME: 0854

LAT: 3° 27.2S

LON: 42° 59' 8E

SONIC DEPTH: 3601 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	26.784	35.647	4.01	179.0	87.7	26.782	23.202	31.460	39.367	0.037	---	8
10	26.774	35.647	3.98	177.5	86.9	26.772	23.205	31.464	39.371	0.047	3.52	10
20	26.524	35.544	3.97	177.5	86.6	26.519	23.283	31.548	39.460	0.093	4.00	20
30	26.402	35.546	3.92	174.8	85.1	26.395	23.324	31.591	39.507	0.139	4.31	30
40	26.268	35.551	3.92	175.2	85.1	26.259	23.370	31.641	39.560	0.184	4.59	40
50	25.988	35.553	3.77	168.4	81.4	25.977	23.460	31.738	39.663	0.229	4.87	50
60	25.563	35.554	3.67	163.7	78.6	25.550	23.593	31.882	39.818	0.273	5.09	60
74	24.581	35.541	3.58	159.7	75.4	24.565	23.884	32.198	40.157	0.332	5.28	74
100	23.772	35.516	3.53	157.5	73.3	23.751	24.107	32.444	40.423	0.433	5.55	100
124	23.456	35.498	3.51	156.8	72.6	23.430	24.188	32.533	40.521	0.525	7.36	124
150	23.079	35.436	3.46	154.6	71.0	23.048	24.252	32.608	40.607	0.623	9.07	149
174	18.633	35.202	3.29	146.7	59.8	18.605	25.764	34.321	42.507	0.699	9.61	173
200	12.855	35.120	4.06	181.4	68.4	12.828	26.521	35.216	43.532	0.745	7.86	199
224	11.639	35.019	3.50	156.1	57.3	11.610	26.678	35.423	43.784	0.780	5.81	223
250	10.572	34.922	3.39	151.4	54.3	10.542	26.797	35.586	43.990	0.815	3.41	249
274	10.220	34.905	3.44	153.7	54.7	10.188	26.846	35.650	44.068	0.845	2.49	273
300	9.969	34.881	3.37	150.4	53.2	9.934	26.871	35.686	44.114	0.878	1.82	299
350	9.671	34.851	3.37	150.4	52.9	9.631	26.898	35.727	44.168	0.939	1.30	349
400	9.664	34.879	3.07	137.1	48.2	9.618	26.922	35.751	44.192	1.000	1.26	399
450	9.689	34.940	2.51	111.9	39.4	9.637	26.967	35.794	44.233	1.060	1.39	449
500	9.549	34.924	2.49	111.3	39.0	9.492	26.979	35.812	44.257	1.119	1.35	499
600	8.901	34.887	2.32	103.7	35.9	8.835	27.056	35.919	44.391	1.235	1.93	599
700	8.296	34.883	2.14	95.4	32.5	8.221	27.149	36.038	44.536	1.341	1.14	699
800	8.104	34.937	1.73	77.0	26.2	8.019	27.221	36.120	44.625	1.444	1.99	799
900	7.148	34.898	1.73	77.0	25.6	7.059	27.330	36.273	44.820	1.538	1.77	899
1000	6.705	34.911	1.56	69.6	22.9	6.608	27.403	36.367	44.934	1.623	1.55	998
1200	6.081	34.917	1.86	83.0	26.9	6.909	27.492	36.486	45.081	1.781	1.28	1198
1400	5.135	34.881	2.21	98.5	31.2	5.012	27.580	36.621	45.261	1.924	1.03	1398
1600	3.951	34.792	2.66	118.6	36.5	3.823	27.639	36.742	45.440	2.053	1.32	1598
1800	3.107	34.768	2.99	133.7	40.3	2.971	27.703	36.851	45.591	2.165	1.17	1798
2000	2.608	34.761	3.16	141.3	42.0	2.462	27.742	36.918	45.684	2.264	0.76	1998
2500	1.971	34.746	3.49	155.9	45.6	1.791	27.784	36.997	45.798	2.487	0.49	2498
3000	1.823	34.738	3.70	165.0	48.1	1.599	27.792	37.016	45.827	2.701	0.00	2997
3500	1.541	34.728	4.02	179.3	51.9	1.274	27.808	37.050	45.878	2.920	1.13	3497
3630	1.367	34.723	4.16	185.5	53.4	1.091	27.817	37.069	45.907	2.972	---	3627

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
199	12.881	35.129	3.51	156.7	59.1	12.854	26.523	35.217	43.531	198
499	9.557	34.924	2.53	112.9	39.6	9.500	26.977	35.810	44.255	497
799	8.140	34.943	1.82	81.3	27.6	8.055	27.221	36.117	44.622	798
999	6.694	34.909	1.62	72.3	23.8	6.597	27.403	36.367	44.934	997
1198	6.078	34.916	1.69	75.4	24.4	5.966	27.491	36.485	45.081	1197
1699	3.511	34.778	2.80	125.0	38.0	3.379	27.672	36.799	45.519	1697
2199	2.268	34.755	3.41	152.2	44.9	2.110	27.767	36.962	45.746	2197
2698	1.909	34.744	3.58	159.8	46.7	1.712	27.789	37.006	45.811	2695
2999	1.823	34.738	3.70	165.2	48.1	1.599	27.793	37.016	45.827	2996
3299	1.815	34.739	3.70	165.2	48.1	1.561	27.796	37.022	45.835	3296
3582	1.375	34.722	4.17	186.2	53.6	1.103	27.815	37.067	45.904	3579
3633	1.367	34.722	4.18	186.6	53.7	1.090	27.816	37.068	45.907	---

CDARWIN 19  
DATE: 1/16/87

STA: 111

LAT: 3° 34.0S  
TIME: 1540

LON: 42° 28.6E

SONIC DEPTH: 3474 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
8	26.524	35.543	4.56	203.7	99.3	26.522	23.281	31.546	39.459	0.037	---	8
10	26.524	35.543	4.55	202.9	99.0	26.522	23.281	31.546	39.459	0.046	2.28	10
20	26.508	35.543	4.71	210.2	102.6	26.503	23.287	31.552	39.465	0.092	2.59	20
30	26.343	35.545	4.59	205.1	99.8	26.336	23.341	31.610	39.527	0.138	2.80	30
40	26.321	35.549	4.66	208.0	101.1	26.312	23.351	31.621	39.539	0.183	3.05	40
50	26.292	35.555	4.60	205.4	99.8	26.281	23.366	31.637	39.555	0.228	3.88	50
60	26.167	35.568	4.40	196.5	95.3	26.154	23.416	31.690	39.611	0.273	4.73	60
74	25.573	35.536	4.51	201.5	96.7	25.557	23.577	31.866	39.802	0.335	6.01	74
100	25.280	35.512	4.45	198.8	95.0	25.258	23.651	31.948	39.891	0.447	8.14	100
124	21.297	35.330	3.98	177.7	79.1	21.273	24.672	33.080	41.127	0.542	9.36	123
150	17.506	35.347	3.57	159.5	66.1	17.481	25.666	34.192	42.349	0.618	9.11	149
174	15.881	35.331	4.03	179.9	72.2	15.853	26.037	34.618	42.827	0.672	7.93	173
200	13.320	35.162	4.10	182.9	69.7	13.292	26.460	35.137	43.435	0.718	6.09	199
224	11.988	35.049	4.05	180.8	66.9	11.959	26.635	35.365	43.713	0.755	4.51	223
250	11.502	35.005	4.42	197.3	72.3	11.470	26.693	35.443	43.810	0.792	3.31	249
274	11.038	34.958	3.82	170.6	61.9	11.004	26.742	35.512	43.897	0.825	2.68	273
300	10.615	34.928	3.35	149.5	53.7	10.579	26.794	35.581	43.983	0.860	2.43	299
350	9.854	34.861	3.57	159.4	56.3	9.814	26.876	35.696	44.129	0.924	2.04	349
400	9.515	34.841	3.35	149.7	52.4	9.470	26.917	35.753	44.200	0.985	1.88	399
450	9.263	34.848	2.98	132.9	46.3	9.213	26.966	35.812	44.270	1.045	1.54	449
500	9.001	34.833	2.92	130.3	45.1	8.946	26.996	35.855	44.324	1.103	1.42	499
600	8.389	34.834	2.47	110.4	37.7	8.325	27.095	35.981	44.475	1.215	1.72	599
700	8.010	34.854	2.16	96.3	32.6	7.937	27.169	36.072	44.583	1.320	1.84	699
800	7.479	34.870	1.93	86.0	28.8	7.398	27.260	36.188	44.721	1.418	1.81	799
900	6.892	34.899	1.68	75.1	24.8	6.804	27.366	36.321	44.880	1.507	1.72	899
1000	6.424	34.909	1.62	72.5	23.7	6.329	27.438	36.415	44.995	1.588	1.41	998
1196	6.105	34.936	1.51	67.5	21.9	5.993	27.503	36.496	45.090	1.737	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	26.462	35.542	4.89	218.3	106.4	26.456	23.301	31.567	39.482	24
49	26.290	35.555	4.78	213.4	103.7	26.279	23.367	31.637	39.566	49
99	25.282	35.511	4.52	201.8	96.4	25.260	23.650	31.947	39.889	99
149	17.740	35.355	3.02	134.8	56.1	17.715	25.615	34.133	42.283	149
250	11.491	35.000	4.12	183.9	67.3	11.459	26.692	35.442	43.810	249
375	9.708	34.850	3.51	156.7	55.1	9.665	26.892	35.719	44.158	374
498	9.000	34.832	3.06	136.6	47.3	8.945	26.996	35.854	44.323	497
598	8.391	34.834	2.53	112.9	38.6	8.327	27.094	35.980	44.474	597
699	8.011	34.858	2.12	94.6	32.1	7.938	27.172	36.075	44.585	698
799	7.467	34.879	1.94	86.6	29.0	7.386	27.269	36.197	44.731	797
999	6.420	34.874	1.62	72.3	23.6	6.326	27.411	36.389	44.969	997
1200	6.104	34.950	1.51	67.4	21.9	5.992	27.514	36.507	45.101	---

CDARWIN 19  
DATE: 1/16/87

STA: 112

TIME: 2031

LAT: 3° 40.4S

LON: 41° 59.2E

SONIC DEPTH: 3147 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
6	25.877	35.214	2.93	130.7	62.9	25.876	23.236	31.520	39.451	0.028	---	6
10	25.901	35.215	2.82	126.1	60.7	25.899	23.229	31.513	39.444	0.046	1.78	10
20	25.903	35.214	2.89	129.0	62.2	25.899	23.228	31.512	39.443	0.093	2.05	20
30	25.906	35.215	2.71	121.2	58.4	25.899	23.229	31.513	39.443	0.139	2.42	30
40	25.783	35.240	2.77	123.8	59.4	25.774	23.287	31.574	39.507	0.186	2.99	40
50	25.698	35.293	2.84	126.7	60.8	25.687	23.354	31.642	39.577	0.231	3.68	50
60	25.615	35.294	2.90	129.4	62.1	25.602	23.381	31.671	39.608	0.277	4.60	60
74	25.690	35.346	2.87	128.0	61.5	25.674	23.398	31.686	39.621	0.340	6.05	74
100	25.545	35.498	2.90	129.7	62.2	25.523	23.559	31.850	39.786	0.456	8.09	100
124	21.916	35.291	2.22	99.1	44.6	21.892	24.471	32.862	40.892	0.553	9.00	123
150	18.469	35.314	2.20	98.3	41.5	18.443	25.404	33.899	42.027	0.628	8.46	149
174	17.308	35.290	2.29	102.1	42.1	17.279	25.671	34.204	42.368	0.688	7.53	173
200	14.940	35.202	3.10	138.4	54.5	14.910	26.149	34.765	43.007	0.746	6.47	199
224	13.811	35.204	3.57	159.4	61.4	13.779	26.392	35.050	43.330	0.788	5.57	223
250	12.148	35.062	3.62	161.7	60.1	12.115	26.616	35.339	43.682	0.829	4.57	249
274	11.425	35.001	3.89	173.6	63.5	11.390	26.706	35.459	43.829	0.864	3.47	273
300	10.878	34.946	3.95	176.5	63.7	10.841	26.762	35.539	43.931	0.899	2.89	299
350	10.065	34.879	3.16	141.1	50.1	10.024	26.854	35.665	44.090	0.965	2.44	349
400	9.412	34.836	2.93	130.7	45.7	9.367	26.930	35.771	44.222	1.026	2.12	399
450	9.018	34.839	2.84	118.0	40.9	8.968	26.998	35.855	44.323	1.085	1.93	449
500	8.802	34.860	2.46	110.0	37.9	8.748	27.049	35.916	44.392	1.141	1.89	499
600	8.344	34.913	2.12	94.8	32.4	8.280	27.164	36.050	44.545	1.246	1.55	599
700	7.816	34.895	1.77	79.0	26.6	7.744	27.229	36.141	44.659	1.346	1.70	699
800	8.069	35.035	1.26	56.2	19.1	7.984	27.304	36.202	44.708	1.439	1.34	799
900	7.084	34.915	1.53	68.1	22.6	6.995	27.353	36.298	44.848	1.528	1.55	899
1000	6.549	34.920	1.59	70.9	23.2	6.453	27.430	36.401	44.975	1.611	1.46	998
1200	5.813	34.914	1.77	79.1	25.5	5.703	27.523	36.529	45.137	1.763	1.03	1198
1400	4.806	34.833	2.18	97.3	30.6	4.687	27.579	36.637	45.293	1.902	1.03	1398
1600	3.875	34.787	2.72	121.6	37.3	3.748	27.643	36.750	45.452	2.028	1.23	1598
1800	3.112	34.769	3.06	136.5	41.1	2.976	27.703	36.851	45.591	2.139	1.06	1798
2000	2.637	34.770	3.17	141.6	42.1	2.490	27.747	36.921	45.686	2.238	0.79	1998
2500	2.048	34.749	3.52	157.1	46.0	1.866	27.781	36.990	45.787	2.464	0.54	2498
3000	1.846	34.740	3.70	165.0	48.1	1.621	27.793	37.015	45.825	2.679	0.38	2997
3176	1.734	34.734	3.79	169.4	49.3	1.494	27.797	37.027	45.843	2.755	---	3173

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
197	15.110	35.239	2.79	124.6	49.2	15.080	26.139	34.749	42.985	196
399	9.422	34.837	3.01	134.4	47.0	9.377	26.930	35.769	44.220	398
600	8.360	34.909	2.06	92.0	31.4	8.296	27.158	36.044	44.538	598
799	8.064	35.032	1.31	58.5	19.9	7.980	27.302	36.201	44.707	797
1199	5.795	34.915	1.71	76.3	24.6	5.686	27.525	36.533	45.142	1197
1499	4.328	34.808	3.39	151.3	47.0	4.205	27.612	36.695	45.375	1497
1799	3.116	34.769	3.02	134.8	40.6	2.980	27.703	36.850	45.590	1796
2099	2.527	34.764	3.27	146.0	43.3	2.373	27.752	36.933	45.703	2097
2399	2.114	34.762	3.49	155.8	45.8	1.940	27.778	36.982	45.775	2396
2699	1.945	34.747	3.58	159.8	46.7	1.747	27.789	37.004	45.807	2697
2999	1.846	34.740	3.70	165.2	48.2	1.621	27.793	37.015	45.825	2997
3178	1.731	34.735	3.82	170.5	49.6	1.491	27.798	37.028	45.845	---

CDARWIN 19  
DATE: 1/17/87

STA: 113

TIME: 0337

LAT: 3° 44.6S

LON: 41° 27.1E

SONIC DEPTH: 2550 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.680	35.239	4.68	209.2	103.8	27.678	22.681	30.921	38.811	0.04	---	8
10	27.681	35.239	4.70	209.6	104.1	27.679	22.681	30.921	38.811	0.052	4.16	10
20	27.685	35.239	4.62	206.4	102.4	27.680	22.680	30.921	38.811	0.103	5.04	20
30	27.685	35.240	4.69	204.9	101.7	27.678	22.682	30.922	38.812	0.155	6.04	30
40	27.688	35.241	4.52	201.7	100.1	27.679	22.683	30.923	38.813	0.207	7.05	40
50	27.684	35.243	4.47	199.3	98.9	27.672	22.686	30.926	38.816	0.259	7.94	50
60	27.489	35.240	4.62	206.1	102.0	27.475	22.748	30.993	38.887	0.310	8.82	60
74	24.300	35.155	4.31	192.2	90.1	24.284	23.676	32.002	39.973	0.377	9.77	74
100	20.223	35.255	3.50	156.1	68.1	20.204	24.904	33.344	41.422	0.473	9.80	100
124	17.925	35.286	2.98	133.1	55.6	17.904	25.516	34.029	42.174	0.537	8.19	124
150	16.954	35.288	2.96	132.0	54.1	16.929	25.753	34.298	42.473	0.598	6.00	149
174	16.070	35.266	2.84	126.7	51.1	16.042	25.944	34.519	42.723	0.651	4.68	173
200	15.649	35.252	2.85	127.3	50.9	15.618	26.030	34.620	42.838	0.704	4.55	199
224	14.861	35.216	3.03	135.3	53.2	14.827	26.177	34.796	43.041	0.752	4.67	223
250	12.945	35.129	3.25	145.2	54.9	12.911	26.511	35.203	43.516	0.797	4.46	249
274	12.713	35.104	3.42	152.8	57.4	12.676	26.539	35.240	43.561	0.835	3.98	273
300	11.670	35.015	3.87	172.9	63.6	11.631	26.671	35.414	43.775	0.873	3.41	299
350	10.557	34.924	3.67	163.9	58.8	10.515	26.803	35.593	43.998	0.942	2.79	349
400	9.694	34.848	3.45	154.0	54.2	9.648	26.893	35.721	44.161	1.006	2.27	399
450	9.352	34.852	3.07	137.1	47.9	9.301	26.954	35.797	44.251	1.066	1.86	449
500	8.950	34.834	2.79	124.3	43.0	8.895	27.006	35.866	44.337	1.125	1.99	499
600	8.182	34.861	2.09	93.3	31.7	8.119	27.147	36.042	44.544	1.233	2.35	599
700	7.583	34.927	1.68	74.9	25.1	7.512	27.289	36.210	44.737	1.328	1.63	699
800	7.615	34.983	1.45	64.9	21.8	7.533	27.330	36.249	44.775	1.417	1.24	799
900	7.247	34.965	1.47	65.4	21.8	7.157	27.370	36.307	44.849	1.504	1.30	899
1000	6.561	34.910	1.67	74.4	24.4	6.465	27.421	36.391	44.965	1.586	1.63	998
1200	5.423	34.878	1.88	84.1	26.8	5.317	27.541	36.568	45.194	1.735	1.10	1198
1208	5.405	34.877	1.93	86.0	27.4	5.298	27.543	36.570	45.197	1.741	---	1206

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	27.684	35.239	4.69	209.4	103.9	27.678	22.681	30.922	38.812	24
99	20.235	35.289	3.35	149.6	65.2	20.217	24.926	33.366	41.443	98
149	16.954	35.286	2.65	118.3	48.5	16.930	25.752	34.297	42.472	148
198	15.704	35.257	2.68	119.6	47.9	15.673	26.021	34.609	42.825	198
324	11.080	34.963	3.80	169.6	61.6	11.040	26.740	35.508	43.892	323
399	9.724	34.850	3.58	159.8	56.3	9.678	26.890	35.716	44.155	398
498	8.964	34.836	2.79	124.6	43.1	8.909	27.005	35.865	44.335	497
599	8.224	34.864	2.19	97.8	33.3	8.161	27.143	36.036	44.537	598
699	7.583	34.930	1.69	75.4	25.3	7.512	27.291	36.212	44.740	698
899	7.243	34.962	1.50	67.0	22.3	7.153	27.368	36.305	44.847	897
1124	6.188	34.950	1.52	67.9	22.1	6.083	27.503	36.491	45.081	1122
1213	5.400	34.876	1.87	83.5	26.6	5.293	27.543	36.570	45.197	---

CDARWIN 19  
DATE: 1/17/87

STA: 114

TIME: 0832

LAT: 3° 51.1S

LON: 40° 55.2E

SONIC DEPTH: 1249 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 pph	Z m
8	28.212	35.223	4.48	200.0	100.1	28.210	22.495	30.724	38.602	0.043	---	8
10	28.209	35.222	4.45	198.4	99.3	28.207	22.496	30.724	38.602	0.053	4.66	10
20	28.184	35.221	4.47	199.3	99.7	28.179	22.504	30.733	38.612	0.107	5.57	20
30	28.158	35.221	4.46	199.0	99.5	28.151	22.513	30.743	38.622	0.160	6.49	30
40	28.151	35.224	4.46	198.8	99.4	28.142	22.519	30.748	38.628	0.214	7.51	40
50	28.111	35.232	4.50	200.8	100.4	28.099	22.539	30.769	38.650	0.267	8.46	50
60	27.954	35.268	4.89	218.5	109.0	27.940	22.618	30.852	38.736	0.320	9.35	60
74	23.898	35.074	4.02	179.5	83.5	23.882	23.734	32.072	40.053	0.386	10.27	74
100	20.459	35.258	3.48	155.5	68.1	20.440	24.843	33.277	41.347	0.482	10.24	100
124	16.739	35.176	2.87	128.1	52.3	16.719	25.717	34.270	42.454	0.543	8.61	123
150	16.056	35.324	3.63	162.1	65.3	16.032	25.991	34.566	42.769	0.600	6.48	149
174	15.363	35.297	3.53	157.5	62.6	15.336	26.127	34.727	42.953	0.648	5.09	173
200	13.895	35.164	3.07	136.8	52.7	13.866	26.343	34.998	43.276	0.695	4.44	199
224	13.177	35.110	3.16	141.1	53.6	13.146	26.449	35.132	43.436	0.736	4.03	223
250	12.209	35.054	3.55	158.3	58.9	12.176	26.598	35.319	43.659	0.776	3.47	249
274	11.831	35.033	3.69	164.8	60.8	11.796	26.654	35.390	43.745	0.811	2.97	273
300	11.481	35.000	3.68	164.2	60.1	11.443	26.695	35.446	43.814	0.848	2.59	299
350	10.578	34.916	3.45	154.2	55.3	10.536	26.794	35.583	43.987	0.916	2.16	349
400	10.213	34.894	3.22	143.7	51.1	10.165	26.841	35.647	44.065	0.981	1.98	399
450	9.621	34.848	3.17	141.7	49.8	9.569	26.906	35.737	44.180	1.044	2.13	449
500	9.107	34.839	3.09	137.8	47.8	9.051	26.984	35.838	44.302	1.104	2.09	499
600	8.309	34.860	2.59	115.8	39.5	8.245	27.127	36.016	44.513	1.216	2.07	599
700	7.721	34.849	2.09	93.4	31.4	7.649	27.208	36.124	44.647	1.316	1.67	699
800	7.289	34.889	1.90	84.6	28.2	7.209	27.302	36.238	44.779	1.410	1.41	799
900	7.106	34.892	1.81	80.8	26.8	7.017	27.332	36.276	44.826	1.500	1.14	899
1000	6.564	34.917	1.68	75.2	24.6	6.468	27.426	36.396	44.970	1.586	1.88	998
1200	5.919	34.917	1.69	75.6	24.4	5.808	27.512	36.514	45.117	1.741	1.36	1198
1248	5.442	34.878	1.83	81.9	26.1	5.331	27.539	36.565	45.190	1.775	---	1246



CDARWIN 19  
DATE: 1/17/87

STA: 115

TIME: 1249

LAT: 3° 56.0S

LON: 40° 30.0E

SONIC DEPTH: 922 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	28.079	35.166	4.40	196.4	98.1	28.077	22.496	30.728	38.610	0.043	---	8
10	28.082	35.166	4.39	195.8	97.8	28.080	22.496	30.727	38.609	0.053	5.72	10
20	28.022	35.168	4.36	194.9	97.2	28.017	22.518	30.751	38.634	0.107	6.53	20
30	27.961	35.177	4.34	193.8	96.6	27.954	22.545	30.780	38.664	0.160	7.36	30
40	27.706	35.201	4.35	194.1	96.4	27.697	22.647	30.887	38.777	0.212	8.10	40
50	26.978	35.258	4.33	193.2	94.8	26.966	22.925	31.182	39.088	0.264	8.71	50
60	25.466	35.273	4.30	192.2	91.9	25.453	23.411	31.706	39.646	0.311	9.13	60
74	22.616	35.079	4.16	185.7	84.5	22.601	24.110	32.483	40.497	0.369	9.59	74
100	19.296	35.349	3.88	173.4	74.4	19.278	25.218	33.686	41.789	0.455	8.92	100
124	18.708	35.409	3.97	177.1	75.1	18.686	25.415	33.901	42.020	0.518	7.37	124
150	17.658	35.390	3.79	169.3	70.4	17.632	25.662	34.182	42.334	0.583	6.24	149
174	16.196	35.362	3.88	173.3	70.1	16.168	25.988	34.558	42.756	0.637	5.69	173
200	14.795	35.313	3.86	172.2	67.7	14.765	26.265	34.885	43.131	0.687	5.10	199
224	13.215	35.094	3.42	152.7	58.0	13.184	26.429	35.111	43.414	0.728	4.18	223
250	12.790	35.085	3.48	155.4	58.5	12.766	26.509	35.207	43.525	0.770	3.33	249
274	12.493	35.076	3.46	154.4	57.8	12.456	26.560	35.270	43.600	0.808	2.91	273
300	12.153	35.048	3.48	155.2	57.6	12.113	26.605	35.329	43.672	0.847	2.78	299
350	11.055	34.960	3.35	149.5	54.2	11.011	26.743	35.512	43.897	0.918	2.56	349
400	10.269	34.896	3.16	141.3	50.4	10.221	26.833	35.636	44.053	0.985	2.15	399
450	9.840	34.864	2.99	133.7	47.2	9.788	26.882	35.704	44.138	1.049	1.86	449
500	9.491	34.848	2.82	125.7	44.0	9.434	26.929	35.766	44.214	1.112	2.23	499
600	8.268	34.808	2.48	110.7	37.7	8.205	27.092	35.984	44.484	1.226	2.06	599
700	7.805	34.820	2.21	98.8	33.3	7.733	27.173	36.086	44.605	1.329	1.47	699
800	7.363	34.874	1.93	86.2	28.8	7.283	27.280	36.213	44.751	1.426	1.49	799
900	7.059	34.893	1.69	75.4	25.0	6.970	27.339	36.286	44.837	1.518	1.18	899
906	7.024	34.900	1.67	74.6	24.7	6.935	27.349	36.298	44.851	1.523	---	905

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	27.964	35.173	4.70	209.8	104.6	27.958	22.541	30.775	38.659	24
149	17.685	35.384	3.39	151.3	63.0	17.660	25.651	34.170	42.721	148
199	14.793	35.333	3.91	174.6	68.6	14.763	26.281	34.901	43.147	198
299	12.159	35.051	3.24	144.6	53.7	12.120	26.606	35.330	43.672	298
399	10.261	34.897	3.19	142.4	50.7	10.214	26.835	35.638	44.055	398
499	9.489	34.848	2.96	132.1	46.3	9.432	26.929	35.766	44.215	498
549	8.749	34.818	2.67	119.2	41.0	8.689	27.025	35.895	44.375	548
599	8.274	34.807	2.48	110.7	37.7	8.211	27.091	35.982	44.482	598
698	7.802	34.821	2.20	98.2	33.1	7.730	27.174	36.086	44.606	697
749	7.595	34.828	2.11	94.2	31.6	7.519	27.210	36.132	44.661	747
799	7.362	34.873	1.88	83.9	28.0	7.282	27.279	36.212	44.750	798
911	6.992	34.903	1.68	75.0	24.8	6.903	27.356	36.306	44.860	---

CDARWIN 19  
DATE: 1/17/87

STA: 116

TIME: 1644

LAT: 4° 1.7S

LON: 40° 4.7E

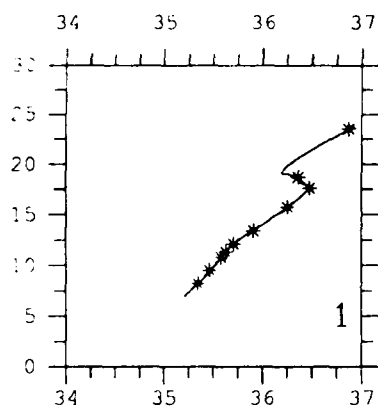
SONIC DEPTH: 758 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	27.977	35.186	4.28	191.1	95.3	27.975	22.545	30.779	38.662	0.042	---	8
10	27.978	35.186	4.27	190.8	95.1	27.976	22.545	30.779	38.662	0.053	5.41	10
20	27.887	35.191	4.24	189.2	94.2	27.882	22.579	30.815	38.701	0.106	6.19	20
30	26.903	35.198	4.63	206.8	101.3	26.896	22.901	31.160	39.068	0.158	6.86	30
40	26.985	35.172	4.46	199.1	96.0	26.976	23.173	31.455	39.385	0.206	7.23	40
50	24.616	35.172	4.25	189.6	89.3	24.605	23.592	31.910	39.872	0.251	7.57	50
60	24.000	35.178	4.15	185.3	86.4	23.987	23.781	32.115	40.093	0.293	7.79	60
74	23.750	35.183	4.10	183.1	85.0	23.735	23.860	32.200	40.184	0.351	8.38	74
100	20.693	35.249	3.63	162.3	71.4	20.674	24.773	33.200	41.264	0.445	8.38	100
124	18.884	35.341	3.63	161.9	68.9	18.862	25.318	33.799	41.915	0.517	7.67	124
150	17.969	35.355	3.63	162.3	67.9	17.943	25.559	34.070	42.213	0.584	6.79	149
174	16.511	35.359	3.69	164.7	67.0	16.483	25.913	34.472	42.661	0.638	5.79	173
200	14.949	35.281	3.52	157.2	61.9	14.919	26.207	34.822	43.063	0.690	4.76	199
224	14.480	35.248	3.46	154.4	60.3	14.447	26.284	34.917	43.174	0.733	3.97	223
250	14.332	35.254	3.37	150.3	58.5	14.295	26.322	34.980	43.222	0.780	3.64	249
274	13.172	35.116	3.05	136.3	51.7	13.134	26.456	35.139	43.444	0.820	3.63	273
300	12.107	35.048	3.66	163.5	60.7	12.067	26.614	35.340	43.684	0.862	3.56	299
350	11.038	34.954	3.90	174.0	63.1	10.994	26.741	35.511	43.897	0.933	2.75	349
400	10.207	34.880	3.75	167.4	59.6	10.160	26.831	35.637	44.056	1.001	2.14	399
450	9.825	34.850	3.80	169.6	59.8	9.773	26.874	35.697	44.132	1.065	2.01	449
500	9.305	34.819	3.64	162.5	56.6	9.249	26.936	35.782	44.238	1.127	2.11	499
600	8.408	34.846	2.49	111.3	38.0	8.344	27.101	35.986	44.479	1.241	2.04	599
700	7.988	34.866	2.11	94.3	31.9	7.915	27.181	36.085	44.596	1.345	1.05	699
742	7.980	34.868	2.05	91.3	30.9	7.903	27.185	36.089	44.601	1.387	---	741

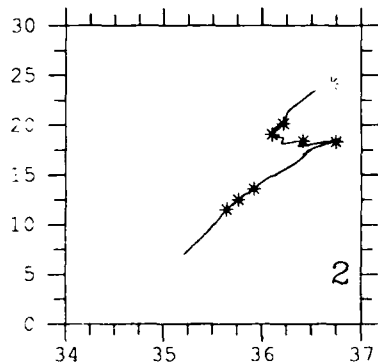
PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	27.810	35.188	4.88	217.9	108.3	27.804	22.602	30.840	38.728	24
48	24.804	35.151	4.25	189.7	89.7	24.794	23.520	31.833	39.791	48
99	20.668	35.248	3.49	155.8	68.5	20.649	24.779	33.206	41.272	99
149	18.017	35.354	3.44	153.6	64.3	17.991	25.546	34.055	42.197	148
199	14.973	35.286	3.47	154.9	61.1	14.943	26.206	34.820	43.060	198
248	14.438	35.260	3.56	158.9	62.0	14.401	26.303	34.937	43.196	247
274	13.172	35.117	3.06	136.6	51.9	13.134	26.457	35.140	43.445	273
398	10.210	34.883	3.77	168.3	59.9	10.163	26.833	35.639	44.058	397
447	9.839	34.851	3.78	168.8	59.6	9.787	26.872	35.694	44.128	446
599	8.409	34.845	2.49	111.2	38.0	8.345	27.100	35.985	44.478	597
691	7.993	34.864	2.11	94.2	31.9	7.921	27.179	36.083	44.594	690
747	7.979	34.867	2.07	92.4	31.3	7.901	27.184	36.089	44.601	---

**MASAI I**

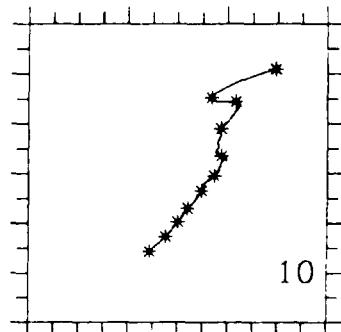
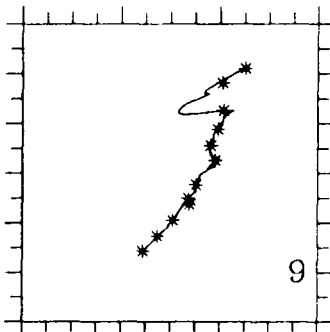
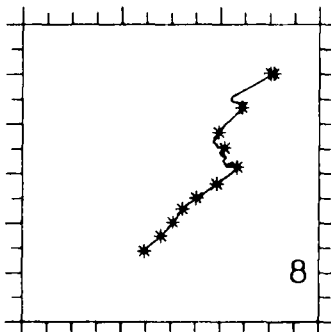
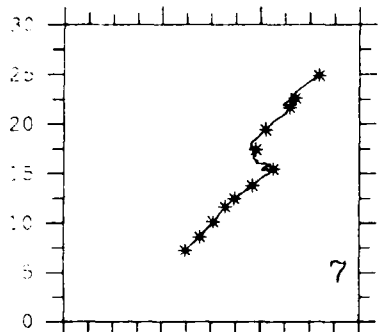
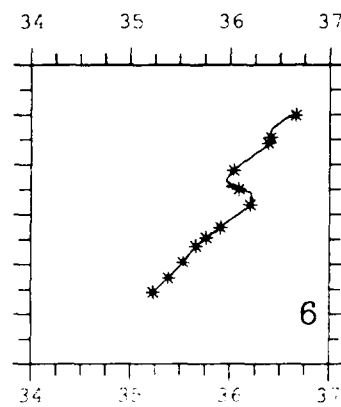
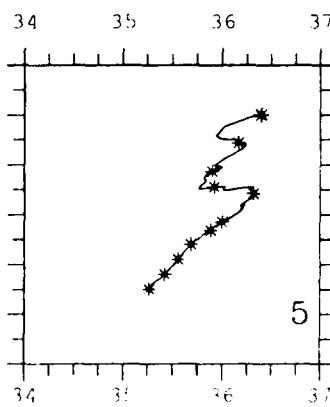
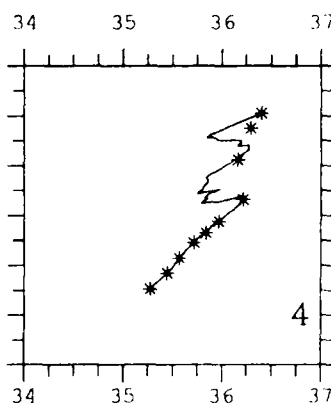
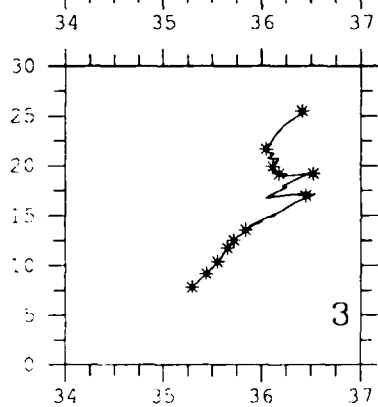
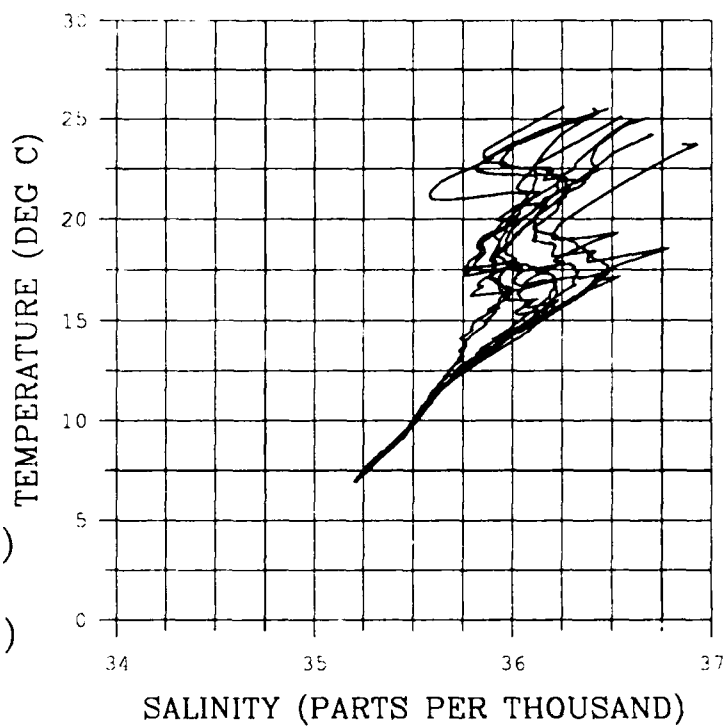
**CTD Data Plots**

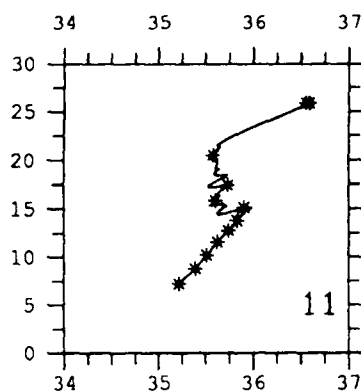


MASAI1  
T/S



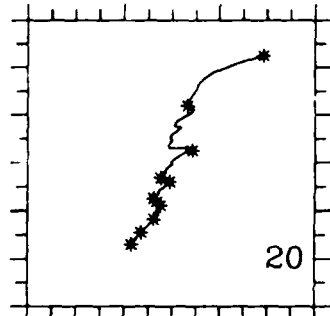
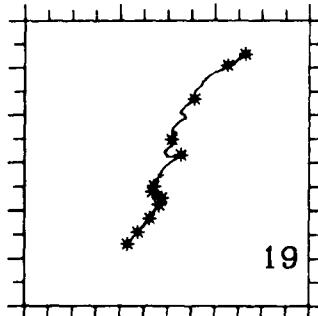
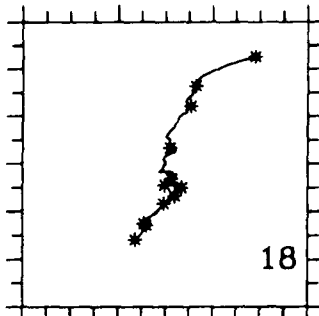
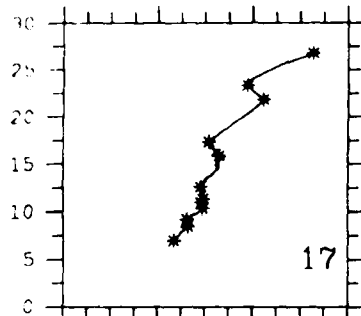
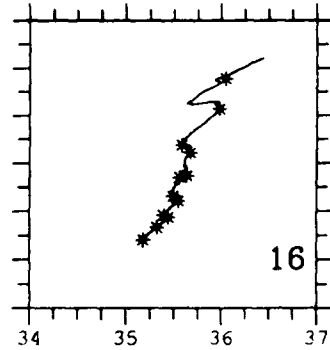
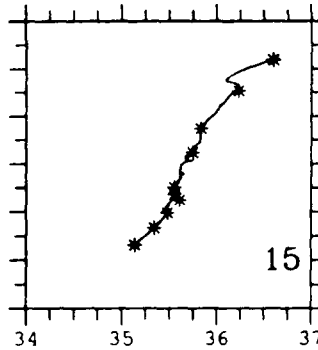
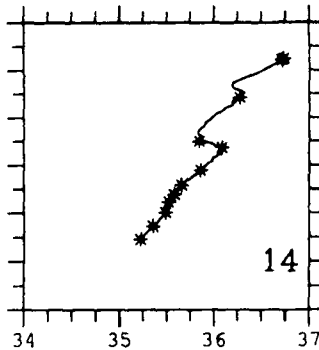
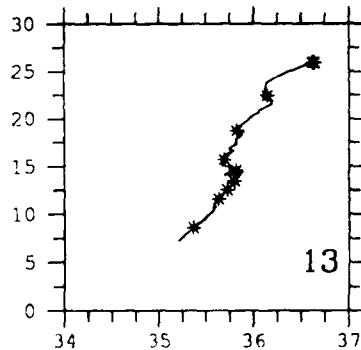
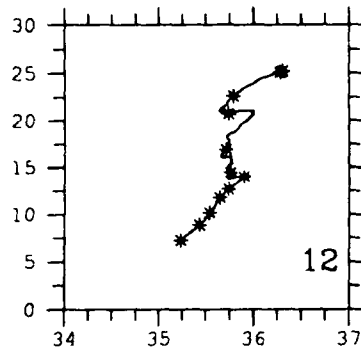
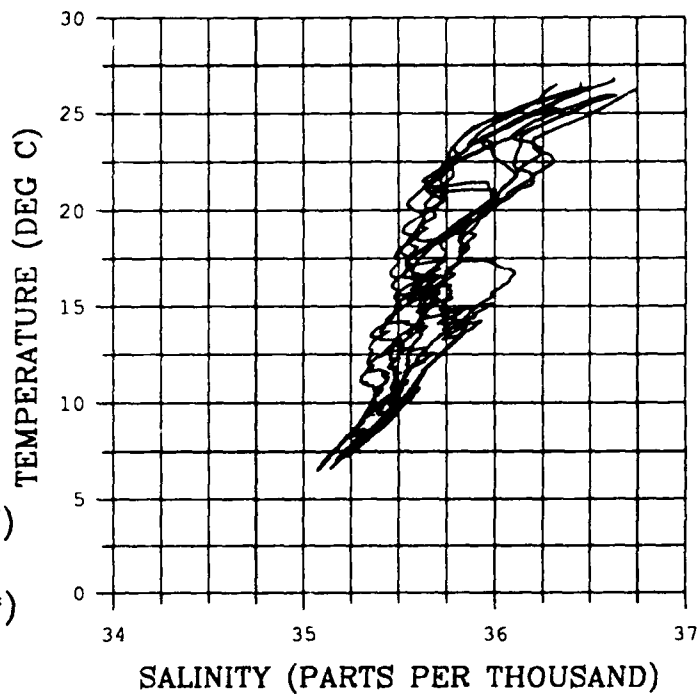
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PLUS  
BOTTLE DATA (\*)

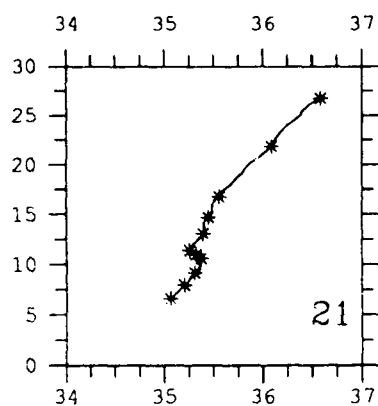




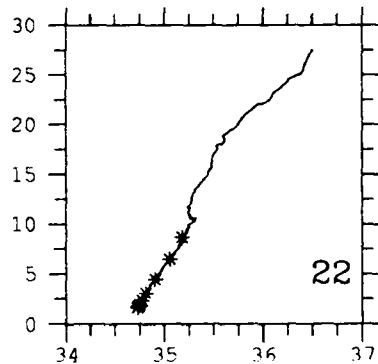
MASAI1  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

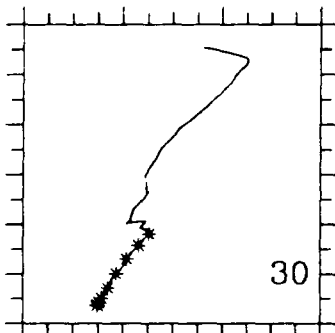
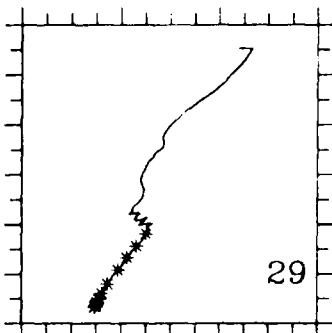
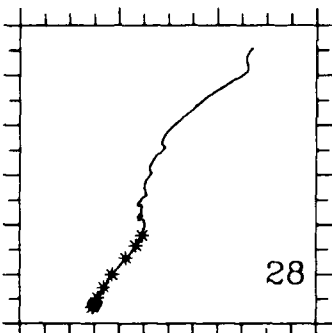
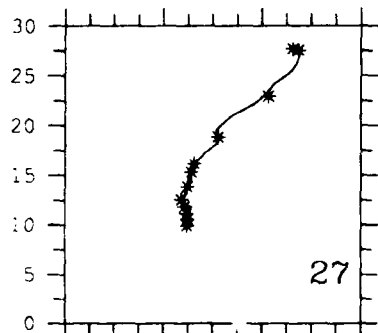
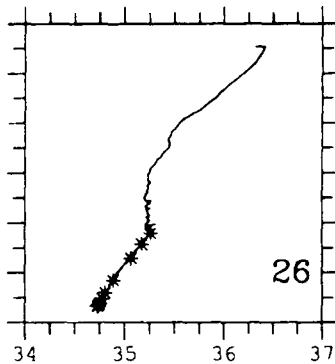
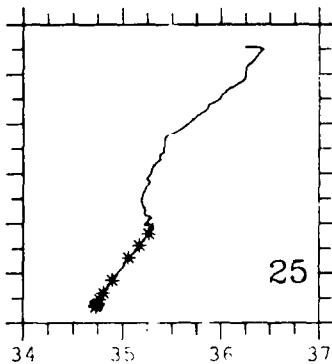
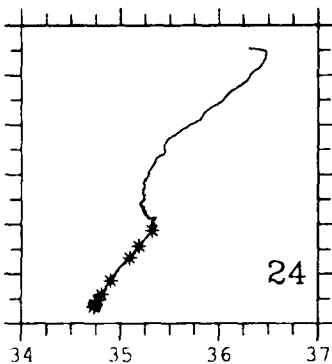
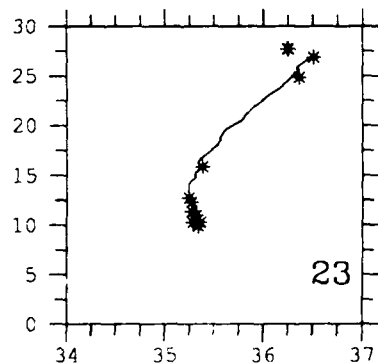
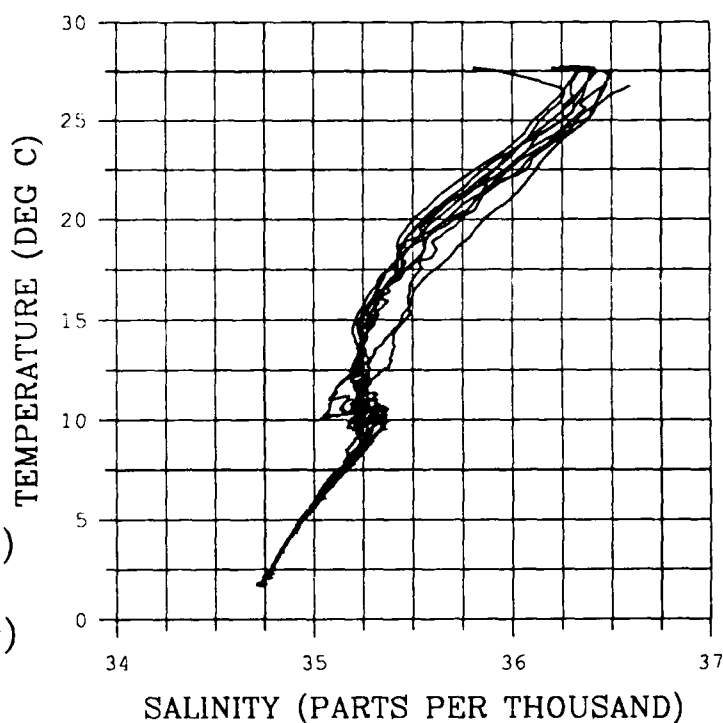


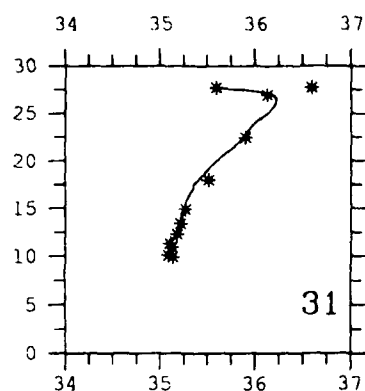
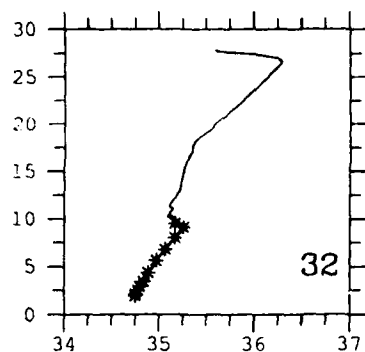


MASAI1  
T/S

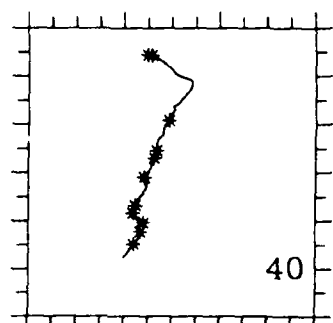
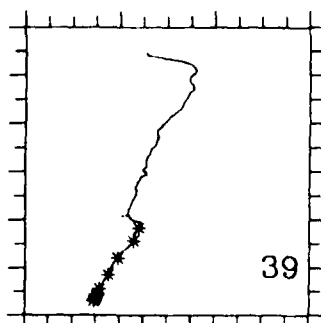
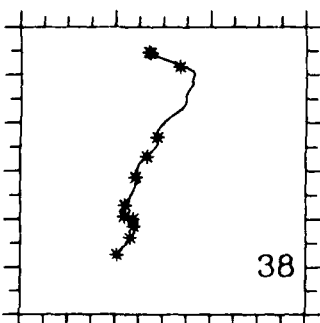
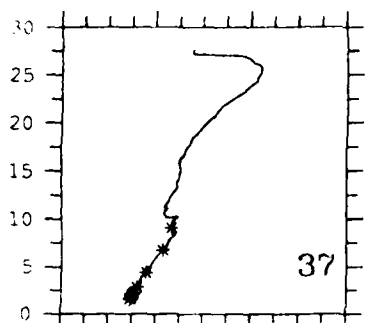
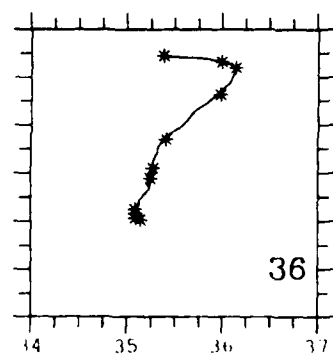
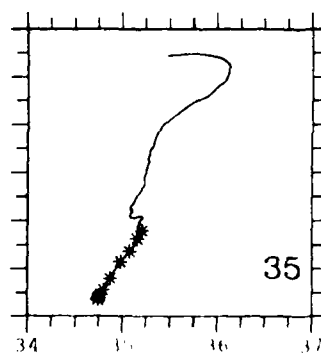
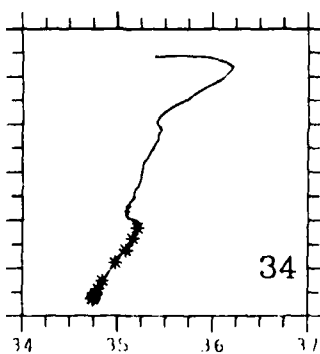
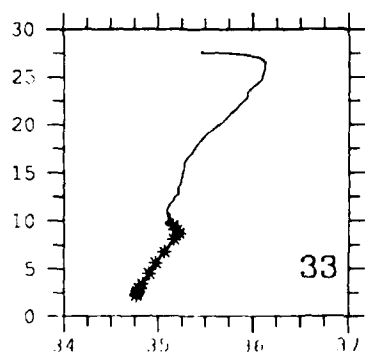
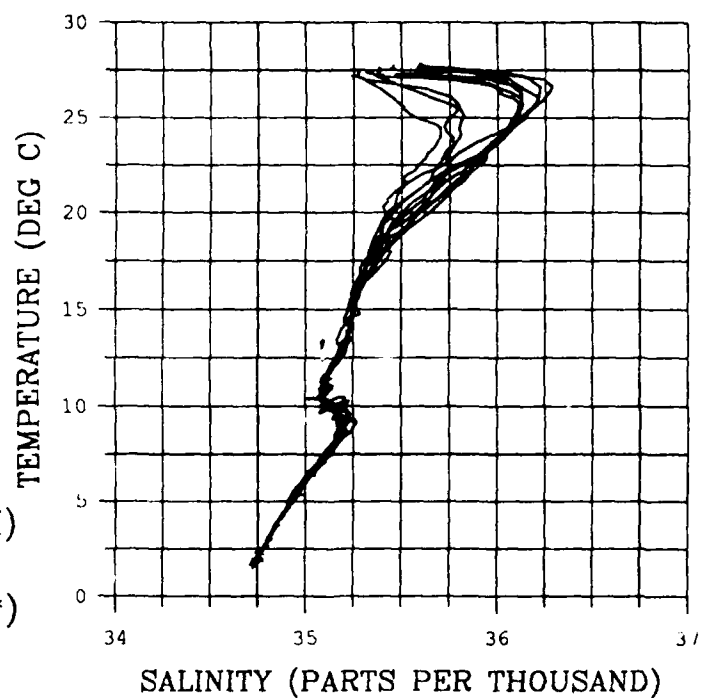


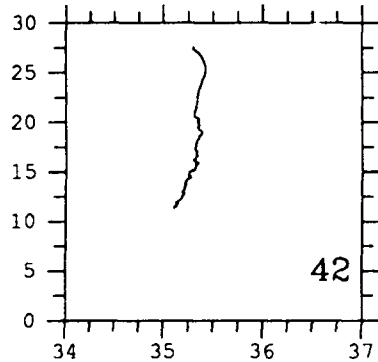
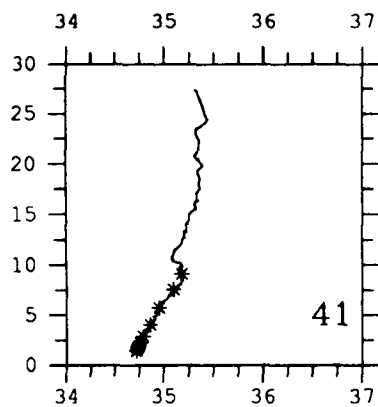
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)



MASAI1  
T/S

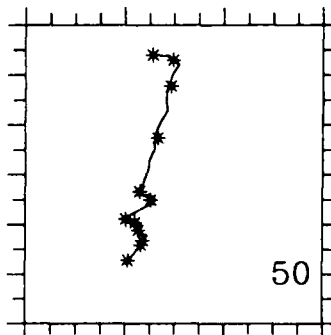
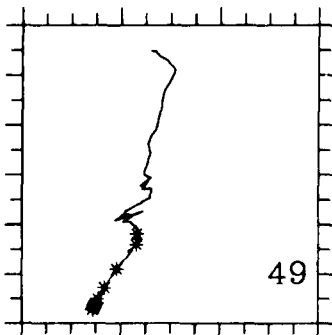
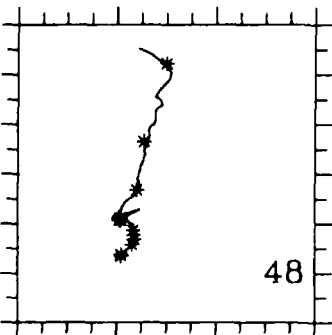
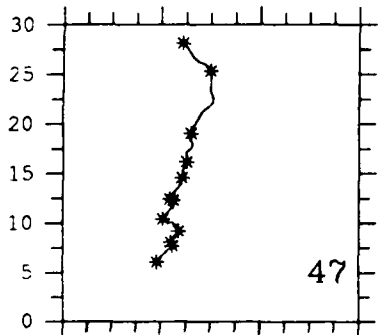
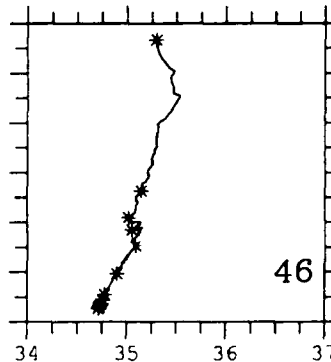
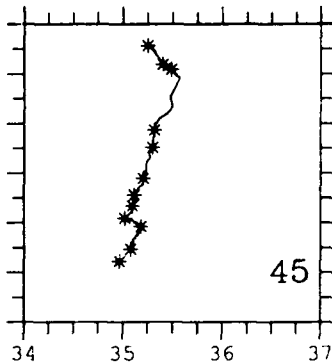
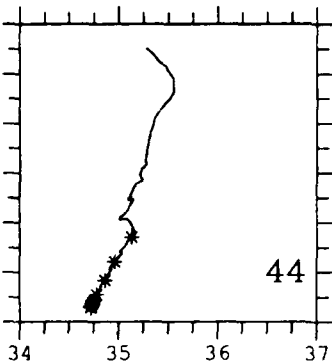
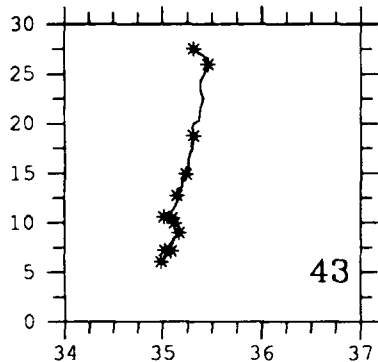
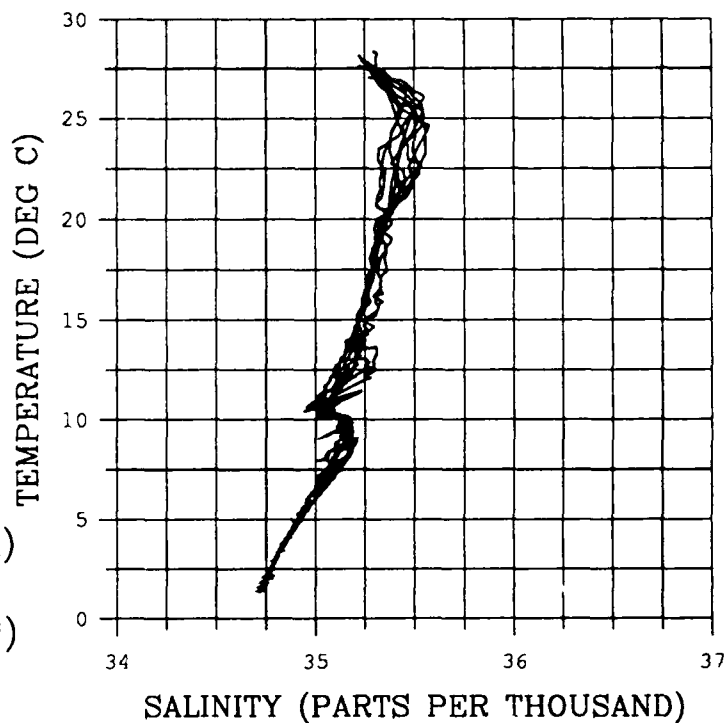
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)



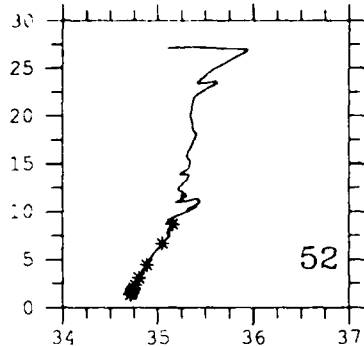
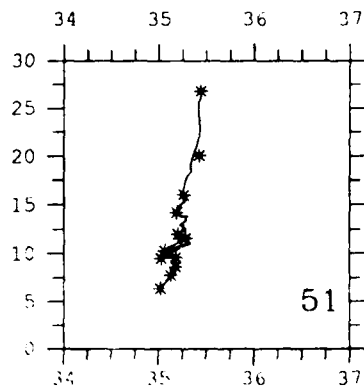


MASAI1  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

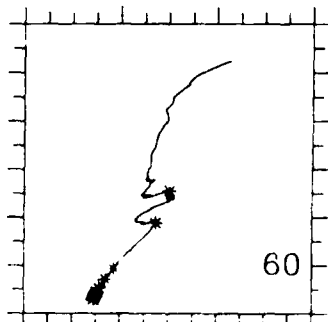
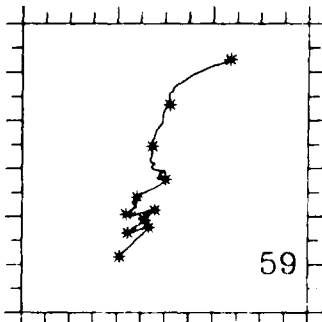
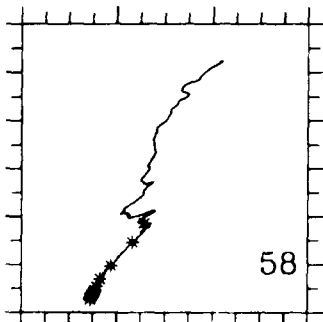
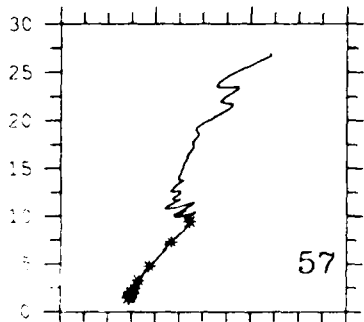
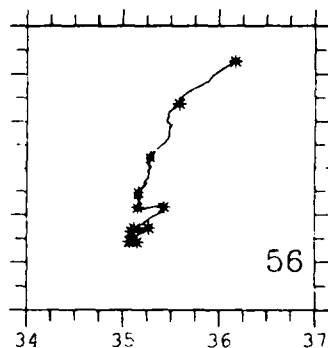
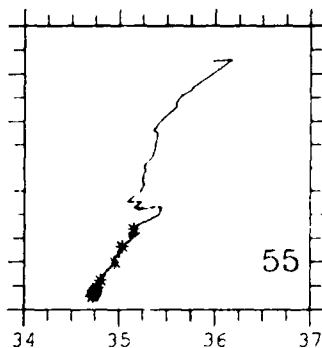
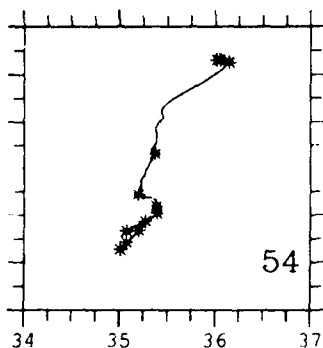
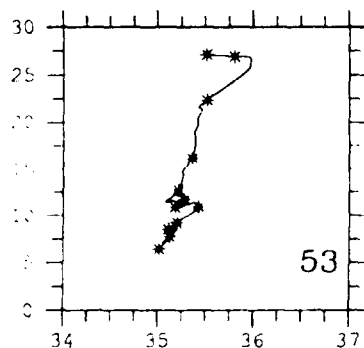
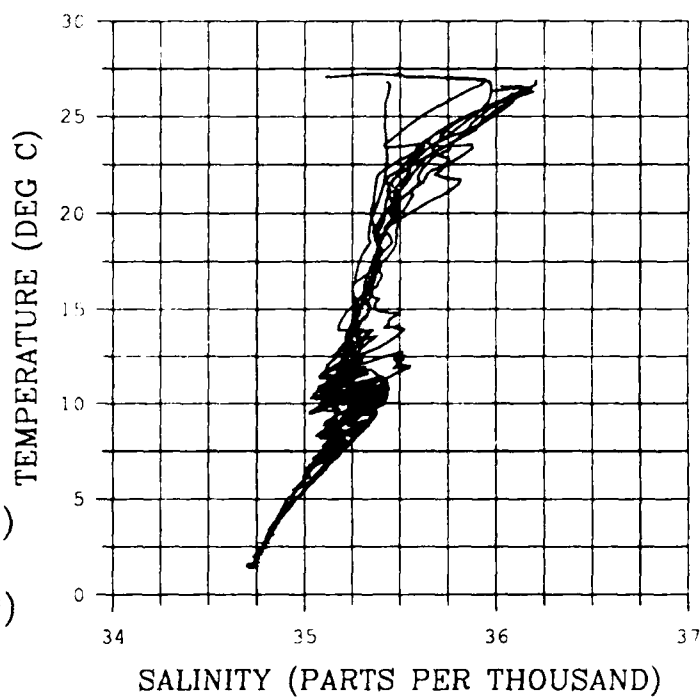


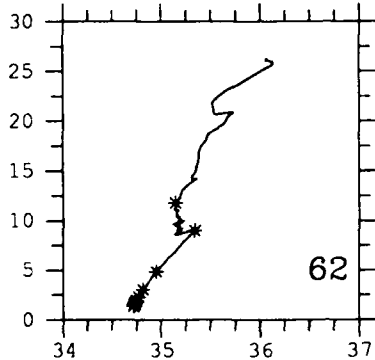
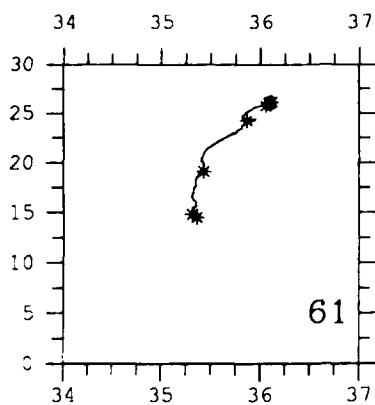




MASAI1  
T/S

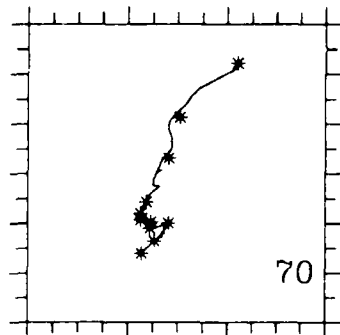
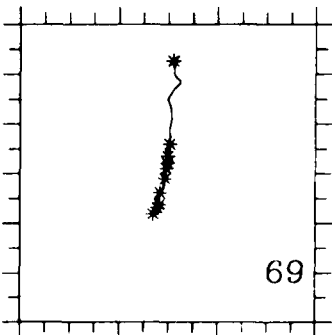
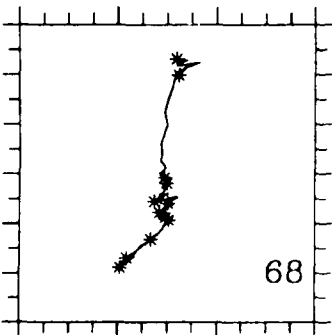
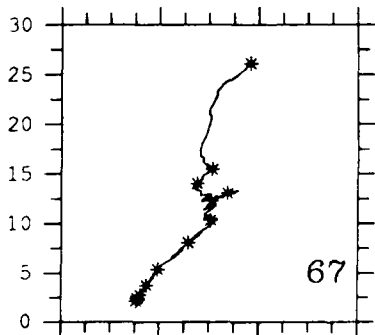
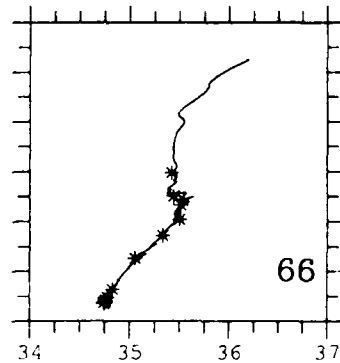
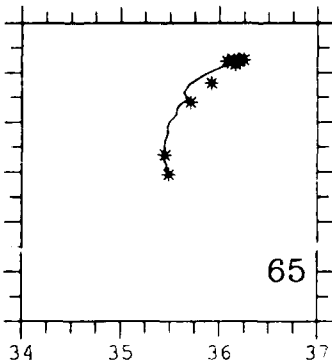
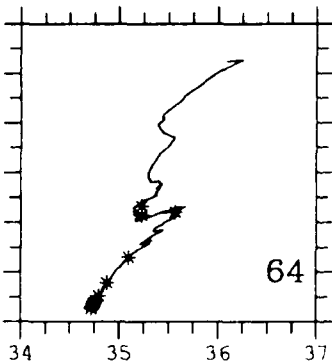
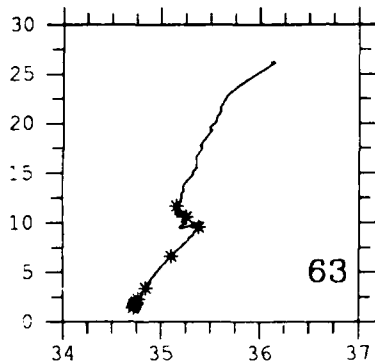
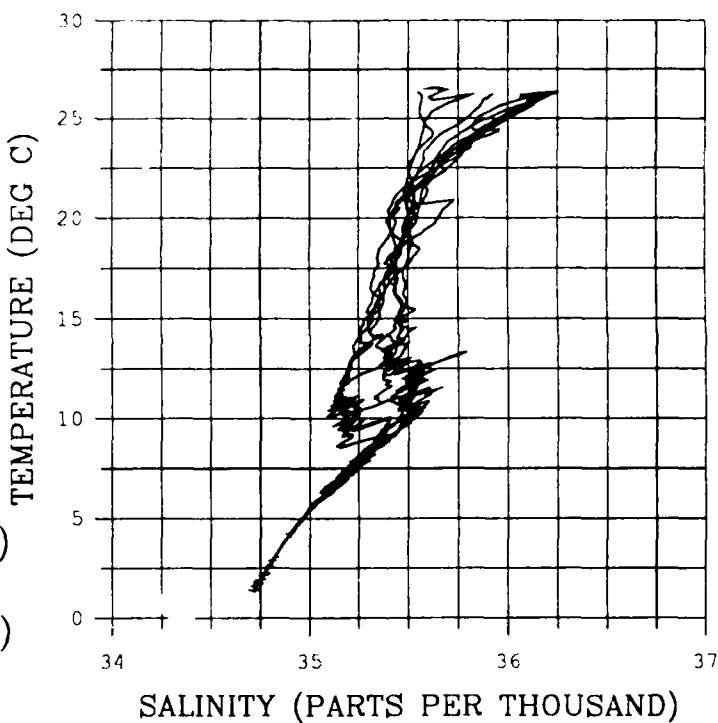
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

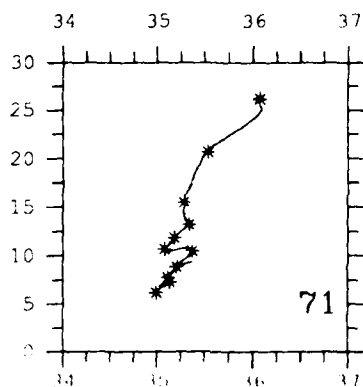




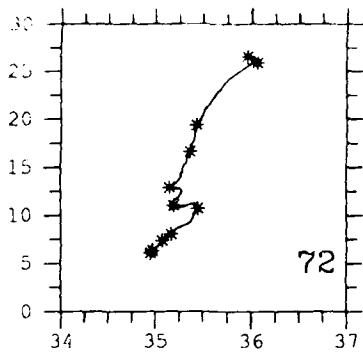
MASAI1  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

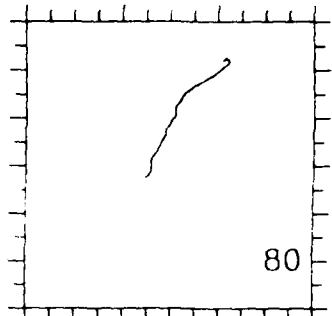
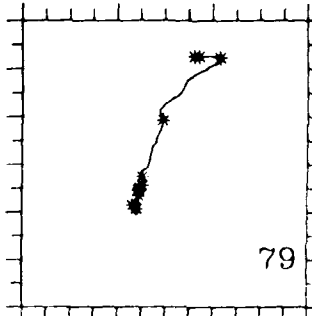
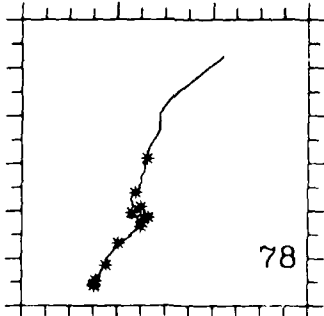
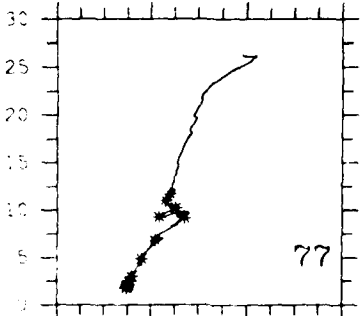
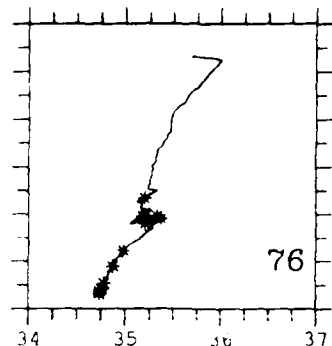
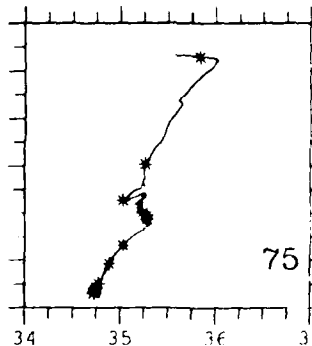
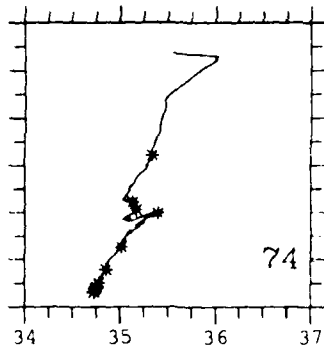
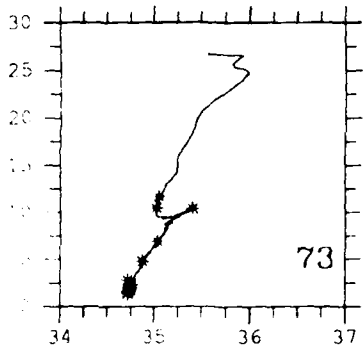
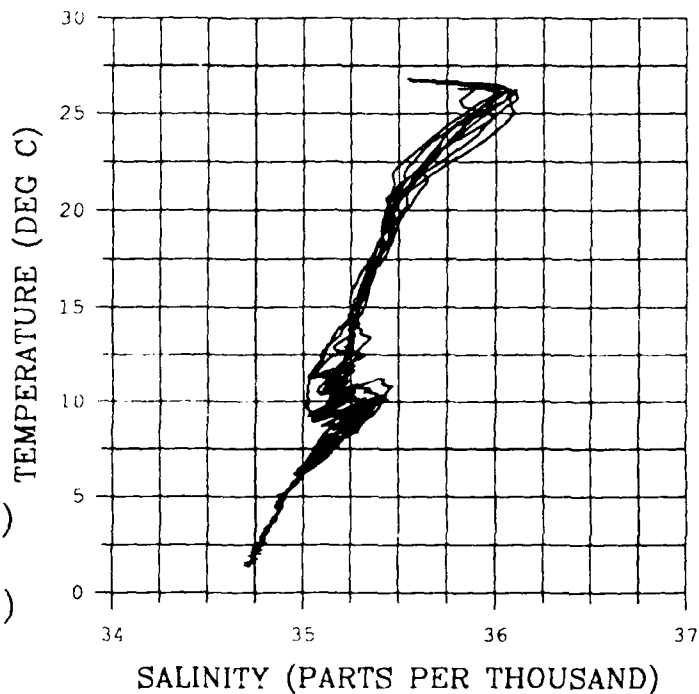


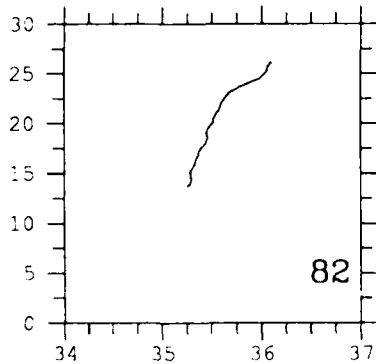
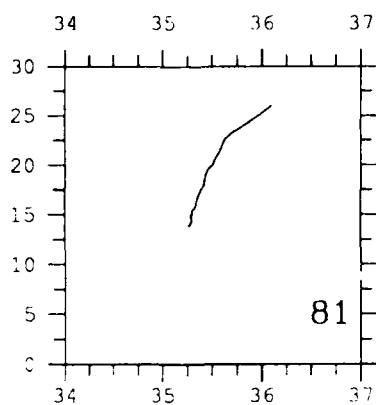


MASAI1  
T/S



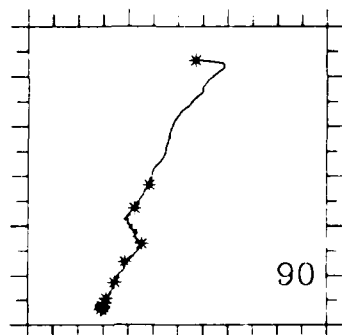
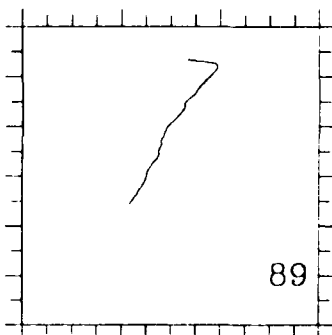
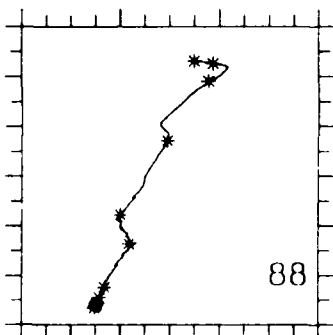
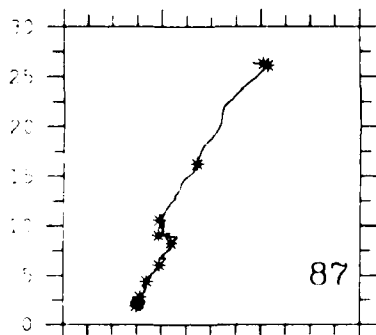
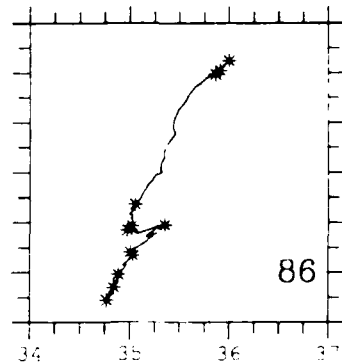
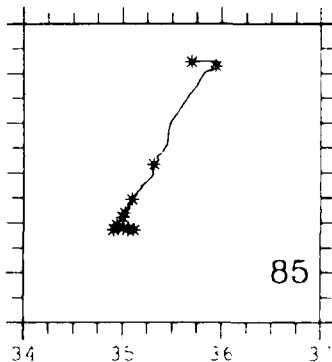
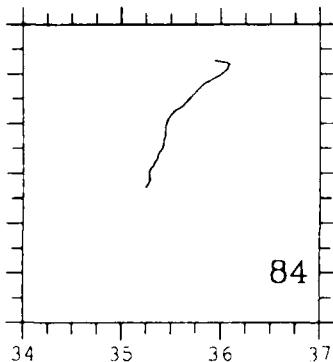
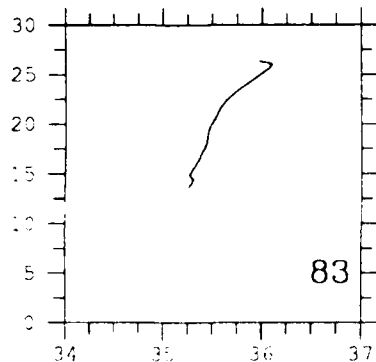
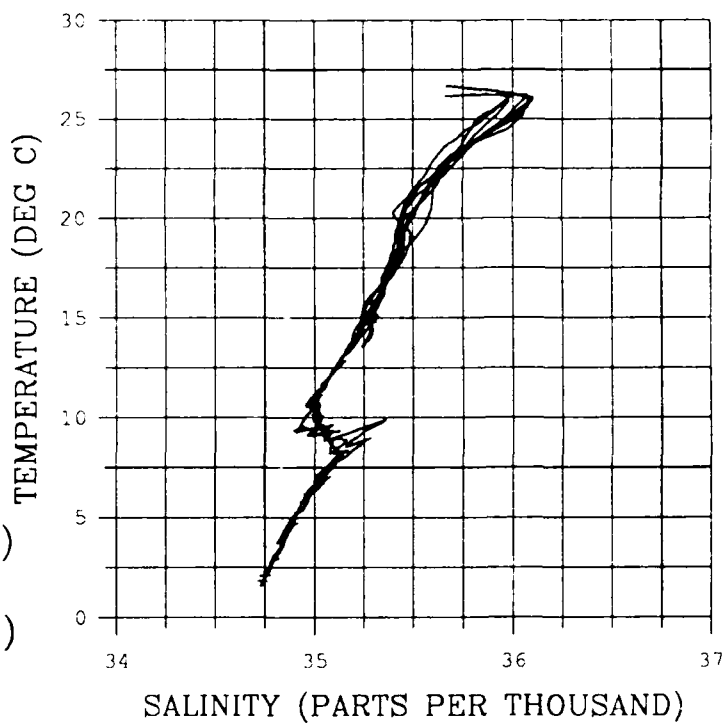
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

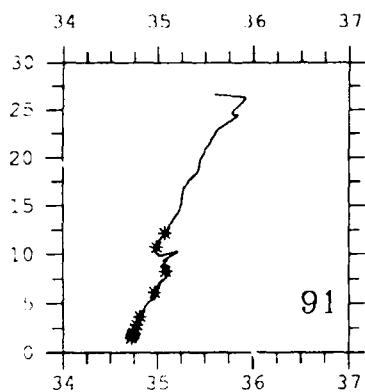




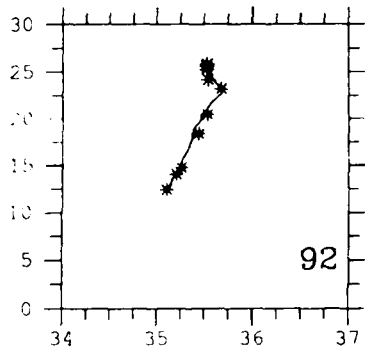
MASAI1  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

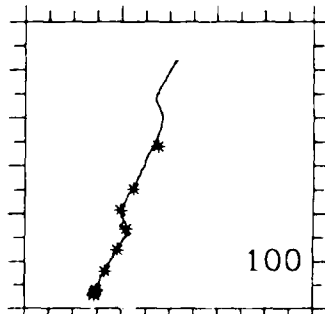
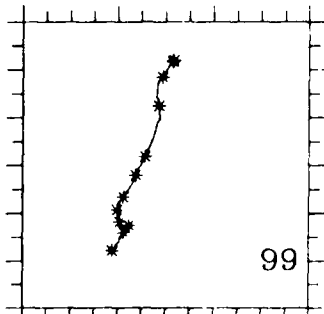
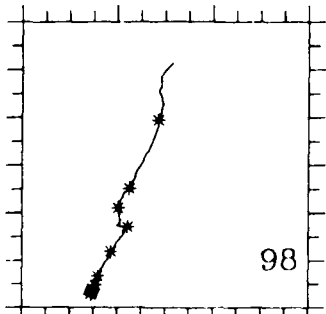
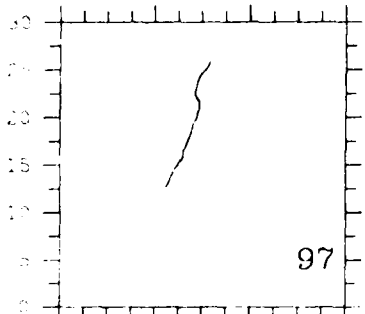
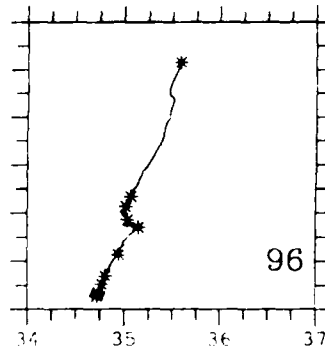
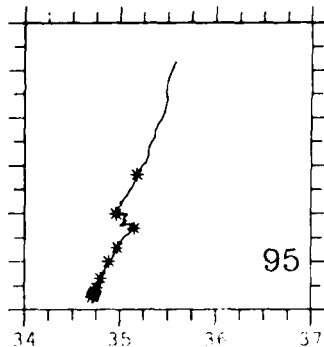
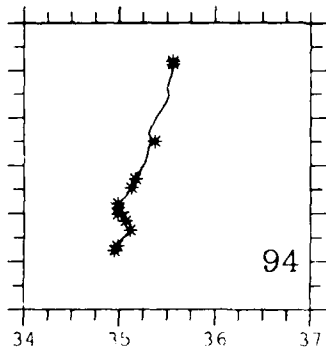
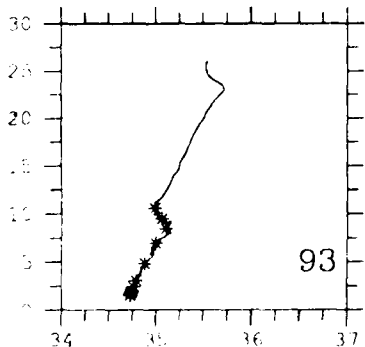
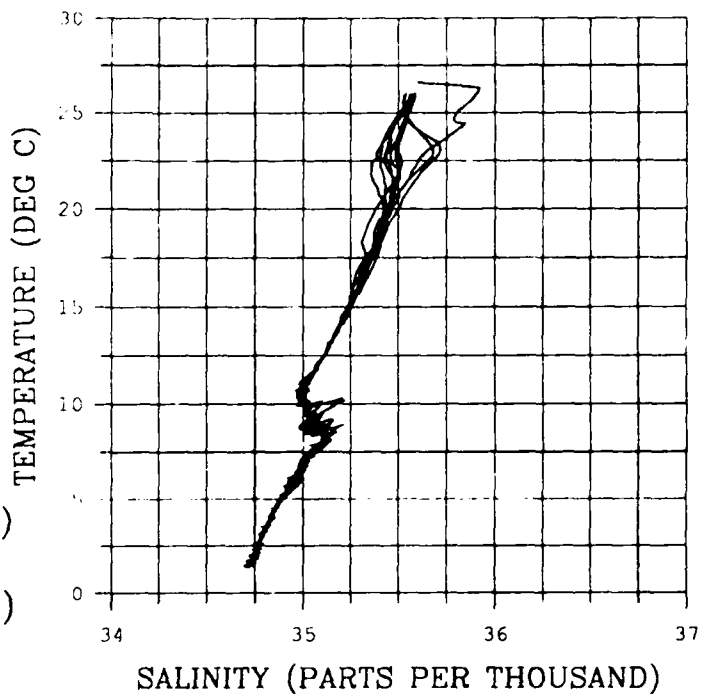


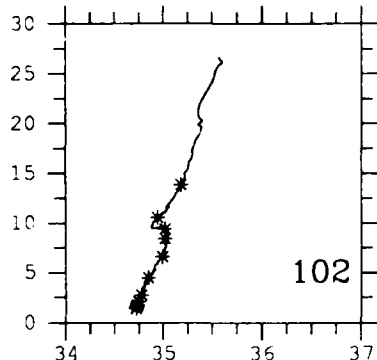
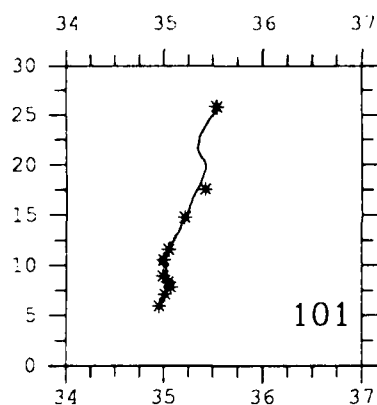


MASAI1  
T/S



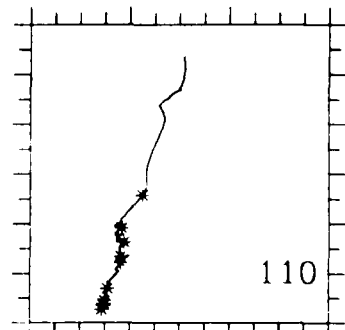
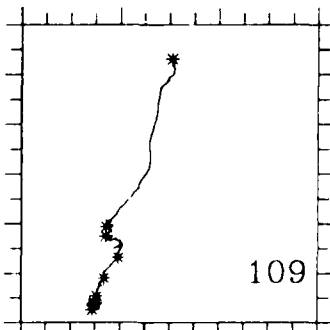
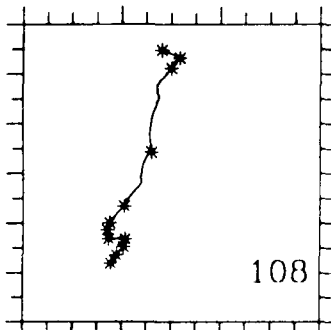
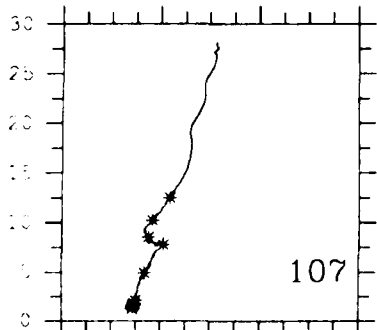
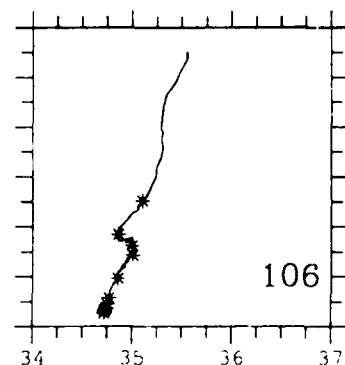
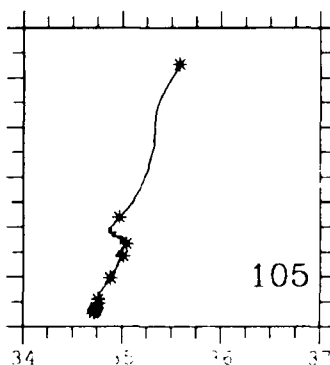
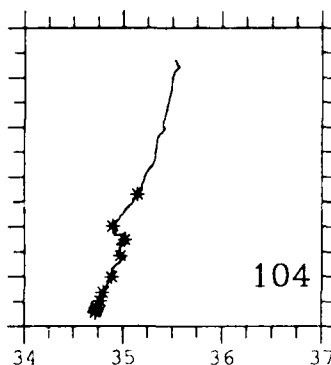
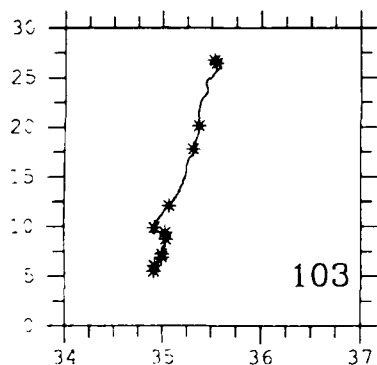
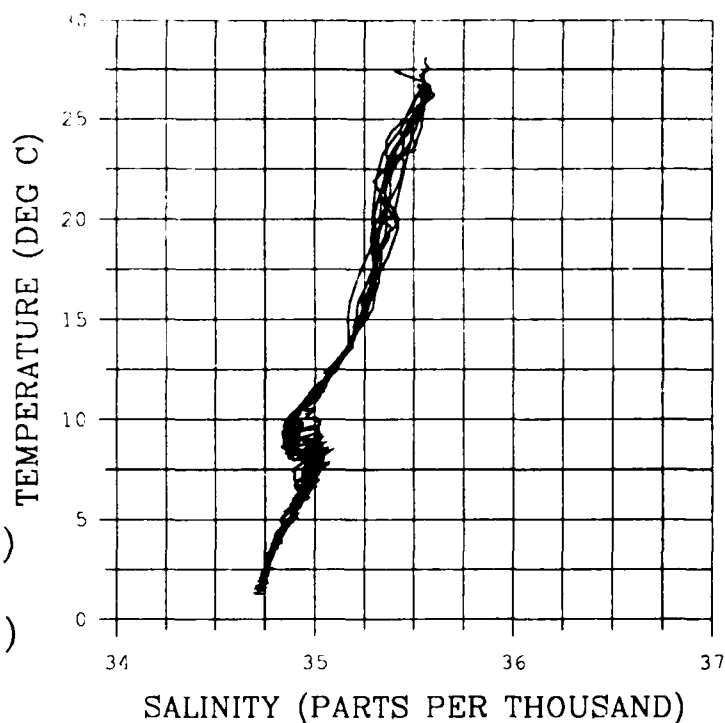
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

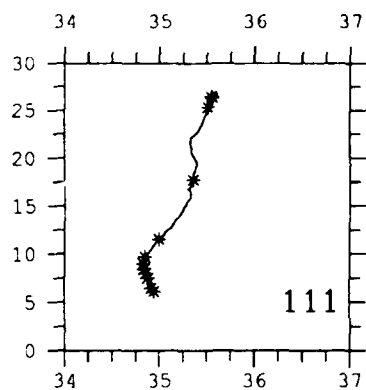




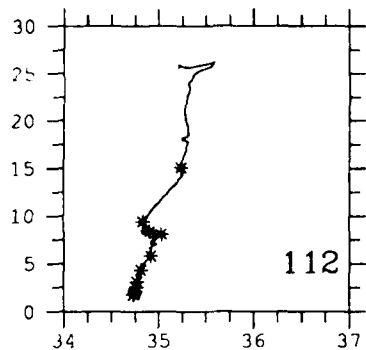
MASAI1  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

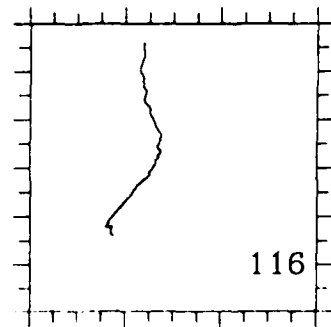
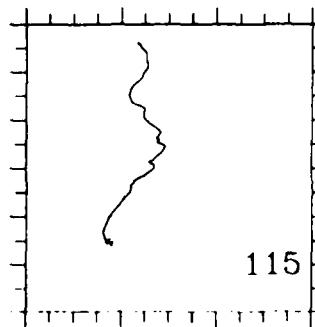
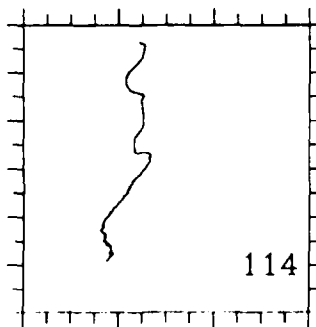
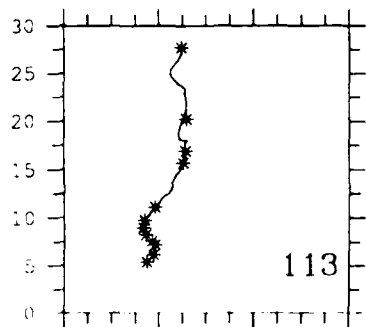
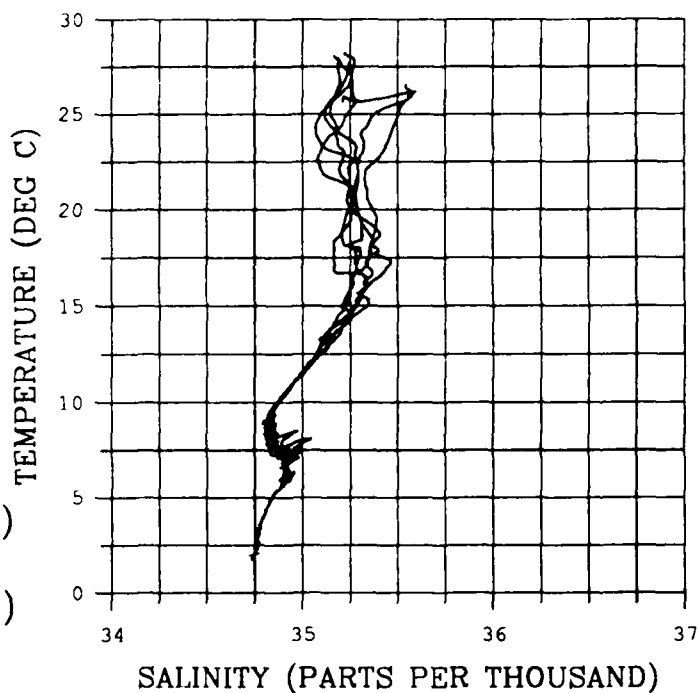




MASAI1  
T/S



CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)



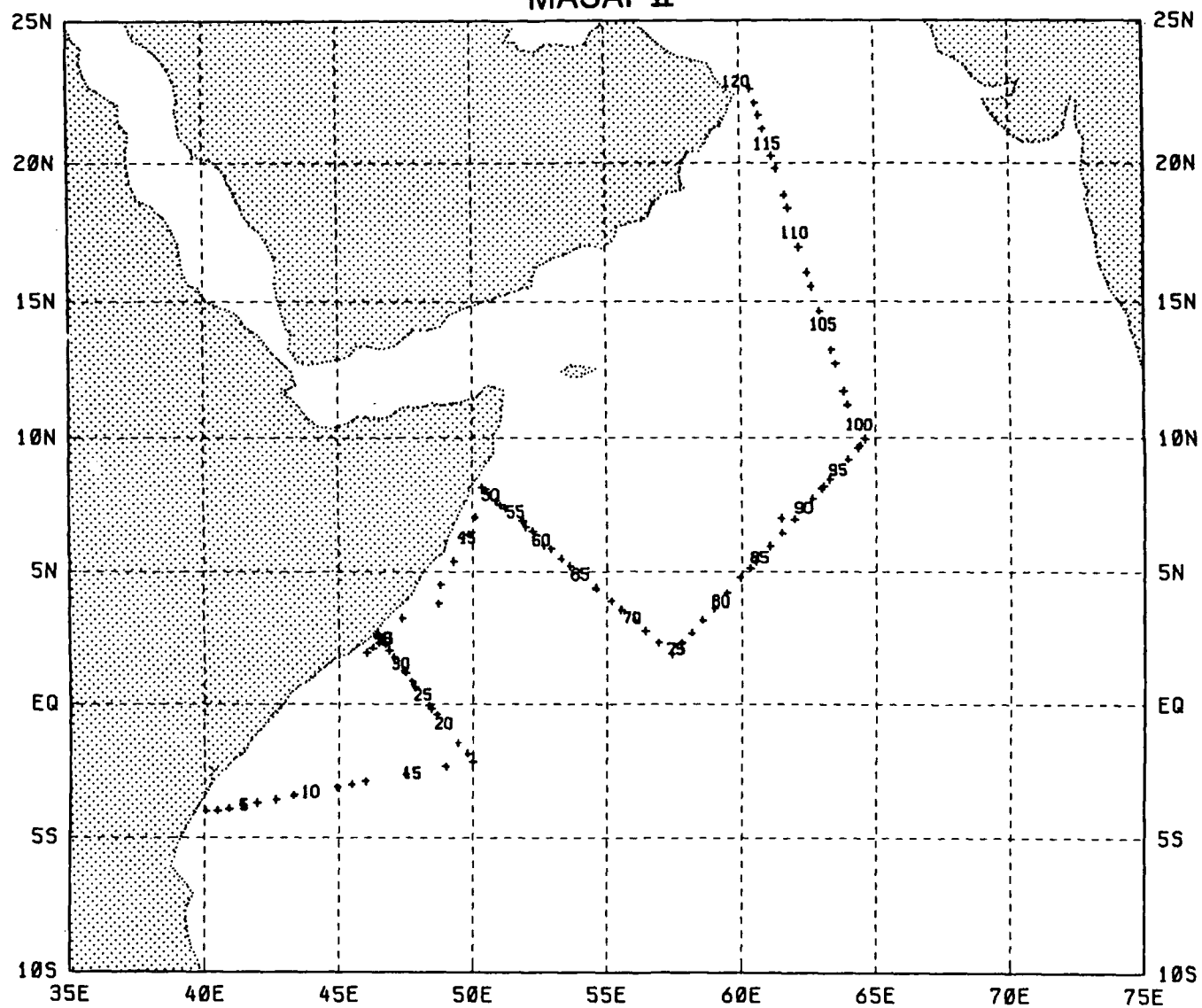
# **MASAI II**

**Tabulated Stations 1-120**

**CTD and Bottle Data**



# MASAI II



CDARWIN 25  
DATE: 7/18/87

STA: 1

TIME: 1929

LAT: 3° 57.0S

LON: 40° 4.0E

SONIC DEPTH: 673 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.164	34.912	---	---	---	25.164	23.227	31.533	39.484	0.009	---	2
10	25.166	34.913	---	---	---	25.164	23.227	31.533	39.485	0.046	2.59	10
20	25.164	34.912	---	---	---	25.160	23.228	31.534	39.486	0.093	2.85	20
30	25.143	34.913	---	---	---	25.136	23.236	31.542	39.494	0.139	3.20	30
40	24.840	34.935	---	---	---	24.831	23.345	31.660	39.619	0.185	3.65	40
50	24.559	34.966	---	---	---	24.548	23.454	31.775	39.741	0.230	4.20	50
60	24.474	34.977	---	---	---	24.461	23.489	31.812	39.780	0.274	4.97	60
74	24.332	34.999	---	---	---	24.316	23.548	31.876	39.847	0.336	6.19	74
100	23.916	35.009	---	---	---	23.895	23.681	32.019	40.001	0.448	7.99	100
124	20.757	35.192	---	---	---	20.733	24.714	33.139	41.203	0.542	8.94	123
150	17.939	35.240	---	---	---	17.913	25.478	33.991	42.138	0.617	8.41	149
174	15.850	35.224	2.80	125.0	50.2	15.823	25.961	34.545	42.757	0.675	7.37	173
200	15.051	35.215	3.01	134.2	53.0	15.021	26.134	34.748	42.984	0.727	5.79	199
224	13.809	35.156	3.73	166.5	64.1	13.777	26.356	35.013	43.295	0.772	4.90	223
250	12.910	35.111	4.10	182.9	69.1	12.876	26.504	35.197	43.511	0.814	3.93	249
274	12.327	35.068	4.26	190.1	70.9	12.290	26.587	35.303	43.639	0.851	3.25	273
300	11.770	35.029	4.55	202.9	74.8	11.731	26.663	35.402	43.759	0.890	2.66	299
350	11.300	34.977	4.25	189.7	69.2	11.256	26.711	35.470	43.846	0.962	2.21	349
400	10.733	34.926	4.09	182.8	65.8	10.684	26.775	35.558	43.956	1.030	1.94	399
450	10.034	34.860	4.12	184.1	65.3	9.981	26.847	35.660	44.087	1.097	2.04	449
500	9.463	34.816	4.00	178.7	62.5	9.408	26.908	35.747	44.197	1.160	2.01	499
600	8.352	34.762	3.65	163.1	55.6	8.288	27.044	35.932	44.429	1.280	1.78	599
656	8.039	34.765	3.28	146.5	49.6	7.971	27.094	35.997	44.507	1.342	---	655

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
13	25.165	34.912	5.13	229.0	108.8	25.162	23.227	31.533	39.485	13
62	24.439	34.980	4.80	214.3	100.6	24.426	23.501	31.826	39.794	62
112	22.707	35.070	4.31	192.4	87.7	22.684	24.079	32.450	40.462	112
138	19.047	35.227	3.48	155.4	66.3	19.022	25.190	33.668	41.780	138
163	17.328	35.229	3.16	141.1	58.2	17.301	25.619	34.152	42.316	162
212	14.568	35.204	3.30	147.3	57.6	14.536	26.231	34.861	43.116	212
238	13.219	35.131	3.61	161.2	61.2	13.186	26.458	35.139	43.441	237
307	11.725	35.022	4.29	191.5	70.5	11.685	26.667	35.408	43.766	306
388	10.738	34.926	4.25	189.7	68.3	10.691	26.774	35.557	43.955	387
488	9.603	34.825	4.03	179.9	63.2	9.547	26.892	35.725	44.169	487
589	8.490	34.763	---	---	---	8.427	27.023	35.905	44.397	588
651	8.040	34.765	3.24	144.6	49.0	7.972	27.094	35.996	44.507	650

CDARWIN 25  
DATE: 7/19/87

STA: 2

TIME: NA

LAT: 3° 57.0S

LOX: 40° 30.0E

SONIC DEPTH: 922 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.340	34.902	---	---	---	25.340	23.166	31.467	39.415	0.009	---	2
10	25.345	34.902	---	---	---	25.343	23.165	31.466	39.413	0.047	4.17	10
20	25.264	34.909	---	---	---	25.260	23.195	31.499	39.448	0.094	4.90	20
30	25.216	34.913	---	---	---	25.208	23.214	31.519	39.469	0.140	5.64	30
40	25.117	34.905	---	---	---	25.108	23.239	31.546	39.499	0.187	6.43	40
50	24.801	34.945	---	---	---	24.790	23.365	31.681	39.641	0.233	7.18	50
60	24.387	35.007	---	---	---	24.374	23.537	31.862	39.832	0.277	7.84	60
74	22.515	35.127	---	---	---	22.500	24.175	32.550	40.566	0.335	8.71	74
100	19.910	35.188	---	---	---	19.892	24.935	33.386	41.473	0.425	8.86	100
124	17.868	35.319	---	---	---	17.847	25.555	34.069	42.215	0.490	7.88	124
150	15.871	35.184	---	---	---	15.847	25.925	34.508	42.719	0.550	6.42	149
174	14.961	35.207	3.14	140.1	55.2	14.935	26.146	34.762	43.003	0.598	5.14	173
200	14.519	35.188	3.34	149.2	58.3	14.489	26.229	34.861	43.117	0.647	4.33	199
224	14.141	35.259	3.91	174.8	67.7	14.108	26.365	35.010	43.278	0.690	4.00	223
250	12.983	35.157	4.11	183.3	69.3	12.948	26.526	35.216	43.526	0.733	3.84	249
274	12.290	35.072	4.16	185.7	69.2	12.253	26.597	35.315	43.652	0.770	3.54	273
300	11.099	34.955	4.28	190.9	69.3	11.062	26.730	35.497	43.880	0.807	2.96	299
350	10.692	34.917	4.21	188.0	67.6	10.649	26.774	35.559	43.958	0.875	2.08	349
400	10.067	34.864	4.10	182.9	64.9	10.020	26.843	35.655	44.080	0.941	2.28	399
450	9.426	34.825	3.72	166.0	58.0	9.375	26.920	35.760	44.211	1.004	2.17	449
500	8.860	34.797	3.49	156.0	53.8	8.805	26.990	35.855	44.330	1.063	1.72	499
600	8.468	34.804	2.92	130.2	44.5	8.404	27.059	35.941	44.433	1.177	1.82	599
700	8.295	34.894	2.33	103.8	35.4	8.220	27.158	36.047	44.545	1.284	1.37	699
800	7.779	34.889	2.06	91.9	31.0	7.696	27.232	36.146	44.666	1.386	1.93	799
900	7.233	34.932	1.77	79.0	26.3	7.143	27.345	36.284	44.827	1.479	1.51	899
912	7.092	34.937	---	---	---	7.002	27.369	36.314	44.863	1.489	---	911

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
12	25.338	34.902	---	---	---	25.335	23.167	31.468	39.415	12
62	24.280	---	4.69	---	---	---	---	---	---	---
127	17.808	---	---	---	---	---	---	---	---	---
186	14.597	35.176	2.94	131.3	51.3	14.569	26.202	34.831	43.085	186
238	13.591	35.218	4.20	187.5	71.8	13.557	26.449	35.115	43.403	237
336	10.766	34.921	4.43	197.8	71.3	10.725	26.764	35.546	43.942	335
438	9.521	34.820	3.65	162.9	57.1	9.471	26.901	35.737	44.184	437
536	8.782	34.790	3.53	157.6	54.3	8.724	26.998	35.867	44.345	535
612	8.535	34.844	2.73	121.9	41.8	8.469	27.080	35.959	44.448	611
688	8.337	34.893	2.43	108.5	37.0	8.264	27.150	36.038	44.534	687
789	7.972	34.904	---	---	---	7.889	27.215	36.120	44.631	787
906	7.123	34.940	1.52	67.9	22.5	7.033	27.367	36.310	44.858	905

CDARWIN 25  
DATE: 7/19/87

STA: 3

TIME: NA

LAT: 3° 52.0S

LON: 40° 58.0E

SONIC DEPTH: 1290 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.886	35.240	---	---	---	25.886	23.252	31.536	39.467	0.009	---	2
10	25.858	35.237	---	---	---	25.858	23.259	31.544	39.475	0.046	2.84	10
20	25.885	35.238	---	---	---	25.881	23.252	31.536	39.467	0.092	4.08	20
30	25.893	35.242	---	---	---	25.886	23.253	31.537	39.468	0.138	5.15	30
40	25.946	35.274	---	---	---	25.937	23.262	31.544	39.473	0.185	6.05	40
50	26.002	35.313	---	---	---	25.991	23.274	31.555	39.482	0.231	6.87	50
60	26.018	35.330	---	---	---	26.005	23.283	31.563	39.490	0.277	7.69	60
74	25.175	35.317	---	---	---	25.159	23.534	31.836	39.783	0.341	8.92	74
100	19.446	35.244	---	---	---	19.428	25.099	33.564	41.664	0.432	9.12	100
124	18.218	35.326	---	---	---	18.197	25.474	33.977	42.112	0.497	8.19	124
150	16.128	35.232	---	---	---	16.104	25.903	34.477	42.679	0.558	6.79	149
174	15.101	35.252	3.15	140.7	55.6	15.075	26.158	34.768	43.004	0.606	5.76	173
200	13.450	35.148	3.36	149.9	57.3	13.422	26.423	35.095	43.389	0.652	4.92	199
224	12.621	35.098	3.67	163.8	61.4	12.591	26.551	35.256	43.580	0.691	4.06	223
250	11.829	35.033	3.85	172.0	63.4	11.797	26.654	35.391	43.745	0.729	3.27	249
274	11.525	35.008	3.43	153.2	56.1	11.490	26.692	35.441	43.807	0.763	2.73	273
300	10.995	34.955	3.44	153.6	55.6	10.958	26.748	35.520	43.907	0.799	2.45	299
350	10.292	34.898	3.53	157.5	56.1	10.250	26.830	35.631	44.047	0.866	2.14	349
400	9.683	34.832	3.77	168.3	59.2	9.637	26.883	35.711	44.152	0.929	1.91	399
450	9.386	34.839	3.32	148.3	51.8	9.335	26.938	35.779	44.232	0.990	1.90	449
500	9.008	34.833	3.13	139.5	48.3	8.953	26.995	35.853	44.322	1.050	2.08	499
600	8.156	34.812	2.76	123.3	41.9	8.093	27.113	36.009	44.514	1.160	1.51	599
700	8.371	34.961	1.83	81.6	27.9	8.296	27.199	36.084	44.578	1.263	1.72	699
800	8.384	35.077	1.28	57.2	19.6	8.298	27.290	36.173	44.665	1.360	1.49	799
900	8.140	35.097	1.18	52.6	17.9	8.044	27.344	36.239	44.741	1.451	1.62	899
1000	7.295	35.073	1.24	55.2	18.4	7.194	27.449	36.383	44.922	1.536	1.89	998
1200	5.743	34.917	1.63	72.9	23.4	5.634	27.534	36.544	45.155	1.686	0.85	1198
1230	5.706	34.916	---	---	---	5.594	27.537	36.549	45.162	1.707	---	1228

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
11	25.879	35.237	---	---	---	25.877	23.253	31.537	39.468	11
61	25.018	35.328	5.02	224.1	108.3	26.004	23.281	31.561	39.488	61
117	18.417	35.334	3.23	144.2	60.8	18.396	25.430	33.926	42.056	117
161	15.644	35.272	3.05	136.2	54.4	15.619	26.045	34.635	42.852	161
238	12.147	35.056	3.69	164.7	61.2	12.116	26.611	35.334	43.677	237
311	10.833	34.942	3.55	158.5	57.2	10.795	26.768	35.546	43.940	310
386	9.747	34.837	3.79	169.2	59.6	9.703	26.875	35.701	44.139	385
536	8.379	34.761	3.26	145.5	49.7	8.322	27.038	35.925	44.420	535
687	8.319	---	1.88	---	---	---	---	---	---	---
837	8.337	35.099	1.55	69.2	23.7	8.247	27.315	36.200	44.694	835
986	7.487	35.082	1.04	46.4	15.6	7.386	27.429	36.354	44.884	985
1220	5.705	34.916	1.65	73.7	23.7	5.594	27.538	36.550	45.162	1218

CDARWIN 25  
DATE: 7/19/87

STA: 4

LAT: 3° 45.0S  
TIME: 0725

LON: 41° 27.0E

SONIC DEPTH: 2565 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.251	35.414	---	---	---	26.250	23.269	31.542	39.463	0.009	---	2
10	26.235	35.414	---	---	---	26.233	23.275	31.548	39.469	0.046	1.86	10
20	26.219	35.413	---	---	---	26.215	23.280	31.554	39.475	0.092	3.93	20
30	26.213	35.413	---	---	---	26.206	23.282	31.556	39.478	0.138	5.16	30
40	26.212	35.413	---	---	---	26.203	23.283	31.557	39.479	0.184	6.47	40
50	26.212	35.413	---	---	---	26.201	23.284	31.558	39.479	0.230	7.71	50
60	26.205	35.413	---	---	---	26.191	23.287	31.562	39.483	0.276	8.89	60
100	18.111	35.194	---	---	---	18.094	25.399	33.906	42.047	0.428	10.21	100
124	15.248	35.298	---	---	---	15.229	26.152	34.756	42.986	0.480	8.07	124
150	13.884	35.172	---	---	---	13.862	26.350	35.005	43.283	0.527	5.05	149
174	13.552	35.161	3.09	137.9	52.8	13.527	26.411	35.079	43.369	0.587	3.35	173
200	12.975	35.120	3.07	137.1	51.8	12.948	26.497	35.187	43.498	0.609	2.46	199
212	12.507	35.082	3.28	146.5	54.8	12.479	26.561	35.270	43.598	0.628	---	211

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
-1	26.578	---	4.93	---	---	---	---	---	---	---
3	26.251	---	---	---	---	---	---	---	---	---
12	26.232	---	---	---	---	---	---	---	---	---
20	26.220	---	---	---	---	---	---	---	---	---
33	26.213	---	5.24	---	---	---	---	---	---	---
60	26.207	---	5.02	---	---	---	---	---	---	---
85	20.999	---	3.19	---	---	---	---	---	---	---
134	14.454	---	3.11	---	---	---	---	---	---	---
211	12.536	---	3.07	---	---	---	---	---	---	---

SONIC DEPTH: 2675 m

[illegible]

CDARWIN 25  
DATE: 7/19/87

STA: 6

TIME: 1445

LAT: 3° 41.0S

LON: 41° 59.0E

SONIC DEPTH: 3127 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.859	35.235	---	---	---	25.859	23.257	31.542	39.473	0.009	---	2
10	25.850	35.236	---	---	---	25.848	23.260	31.545	39.477	0.046	3.45	10
20	25.829	35.236	---	---	---	25.825	23.268	31.553	39.485	0.092	4.56	20
30	25.798	35.235	---	---	---	25.791	23.278	31.564	39.497	0.138	5.77	30
40	25.793	35.236	---	---	---	25.784	23.280	31.567	39.500	0.184	5.80	40
50	25.785	35.236	---	---	---	25.774	23.284	31.571	39.504	0.230	7.82	50
60	25.758	35.239	---	---	---	25.745	23.295	31.582	39.516	0.276	8.84	60
74	22.046	35.152	---	---	---	22.031	24.326	32.714	40.742	0.335	10.06	74
100	18.177	35.231	---	---	---	18.160	25.411	33.916	42.053	0.416	9.80	100
124	16.013	35.329	---	---	---	15.993	26.003	34.580	42.784	0.471	8.23	124
150	13.767	35.162	---	---	---	13.746	26.367	35.026	43.309	0.520	5.94	149
174	12.756	35.112	3.45	154.0	58.0	12.732	26.534	35.232	43.551	0.558	4.85	173
200	11.849	35.046	3.61	160.9	59.4	11.823	26.659	35.394	43.747	0.596	3.74	199
224	11.380	35.005	3.61	161.2	58.9	11.352	26.716	35.471	43.842	0.630	3.13	223
250	10.460	34.928	3.70	165.0	59.1	10.430	26.822	35.615	44.023	0.665	2.62	249
274	10.495	34.945	3.41	162.4	64.6	10.462	26.830	35.621	44.028	0.695	2.18	273
300	10.115	34.918	3.35	149.7	63.2	10.080	26.875	35.683	44.105	0.728	1.70	299
350	9.992	34.908	3.16	141.3	50.0	9.951	26.889	35.703	44.130	0.790	1.30	349
400	9.797	34.908	2.86	127.7	45.0	9.751	26.923	35.745	44.180	0.851	1.58	399
450	9.561	34.908	2.69	120.1	42.2	9.510	26.963	35.796	44.241	0.911	1.95	449
500	9.084	34.915	2.44	108.9	37.8	9.028	27.048	35.901	44.365	0.968	2.11	499
600	8.513	34.894	2.25	100.6	34.5	8.449	27.122	36.002	44.490	1.076	1.66	599
700	8.652	35.046	1.56	69.5	23.9	8.575	27.222	36.093	44.575	1.177	1.63	699
800	8.441	35.081	1.46	65.2	22.3	8.354	27.284	36.165	44.655	1.272	1.26	799
900	8.161	35.101	1.33	59.5	20.3	8.065	27.344	36.237	44.739	1.364	1.54	899
1000	7.437	35.037	1.36	60.8	20.4	7.335	27.401	36.329	44.862	1.450	1.41	999
1200	6.642	35.008	1.47	65.5	21.5	6.525	27.490	36.457	45.026	1.613	1.54	1198
1400	5.134	34.901	1.81	80.7	25.6	5.011	27.595	36.637	45.276	1.757	1.59	1398
1600	4.256	34.850	2.26	101.0	31.3	4.124	27.654	36.741	45.423	1.884	1.27	1598
1800	3.317	34.784	2.73	121.9	36.9	3.179	27.696	36.833	45.563	1.996	0.82	1798
2000	2.772	34.781	2.88	128.3	38.3	2.623	27.744	36.911	45.668	2.099	1.08	1998
2500	2.204	34.760	3.22	144.0	42.4	2.019	27.778	36.978	45.767	2.32	0.44	2498
3000	1.894	34.742	3.60	160.8	47.0	1.668	27.791	37.011	45.818	2.548	0.31	2997
3132	1.792	34.737	3.71	165.5	48.2	1.556	27.795	37.021	45.835	2.606	---	3129

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
33	25.796	35.206	5.14	229.5	110.4	25.789	23.256	31.543	39.477	33
123	15.919	35.297	3.23	144.2	57.9	15.900	26.000	34.580	42.788	122
232	11.019	---	3.89	---	---	---	---	---	---	---
580	8.641	---	2.16	---	---	---	---	---	---	---
781	8.406	---	1.72	---	---	---	---	---	---	---
983	7.475	---	1.17	---	---	---	---	---	---	---
1283	6.158	34.998	1.39	62.1	20.2	6.036	27.547	36.536	45.127	1281
1683	3.633	34.801	2.63	117.4	35.8	3.501	27.679	36.798	45.512	1681
2093	2.566	34.774	---	---	---	2.412	27.757	36.935	45.704	2091
2484	2.211	34.762	3.27	146.0	43.0	2.028	27.779	36.976	45.767	2482
2883	1.938	34.745	---	---	---	1.723	27.789	37.006	45.810	2880
3129	1.796	34.738	3.75	167.4	48.8	1.560	27.796	37.021	45.834	3126

CDARWIN 25  
DATE: 7/19/87

STA: 7

TIME: 2340

LAT: 3 32.0S

LOX 42 4. 0E

SONIC DEPTH: 3545 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	25.906	35.339	---	---	---	25.906	23.321	31.603	39.532	0.018	---	4
10	25.910	35.340	---	---	---	25.908	23.320	31.603	39.532	0.045	0.44	10
20	25.915	35.341	---	---	---	25.910	23.320	31.602	39.531	0.091	0.44	20
30	25.912	35.341	---	---	---	25.905	23.322	31.605	39.534	0.136	0.44	30
40	25.909	35.341	---	---	---	25.900	23.324	31.606	39.536	0.182	0.54	40
50	25.912	35.343	---	---	---	25.901	23.325	31.608	39.537	0.228	4.69	50
60	25.902	35.348	---	---	---	25.889	23.333	31.616	39.545	0.273	7.48	60
124	15.039	35.201	---	---	---	15.020	26.123	34.735	42.974	0.488	8.16	124
150	13.290	35.141	---	---	---	13.269	26.448	35.126	43.426	0.534	3.69	149
174	12.385	35.090	3.74	167.1	62.4	12.362	26.590	35.303	43.636	0.571	3.62	173
200	11.658	35.030	3.66	163.6	60.1	11.632	26.682	35.425	43.786	0.608	3.45	199
224	11.039	34.978	3.67	159.6	57.8	11.011	26.757	35.526	43.910	0.641	2.78	223
250	10.920	34.986	3.35	149.6	54.1	10.889	26.785	35.559	43.949	0.675	2.29	249
274	10.434	34.939	3.41	152.1	54.4	10.401	26.835	35.630	44.039	0.706	1.97	273
300	10.262	34.926	3.30	147.2	52.5	10.226	26.856	35.658	44.074	0.739	1.78	299
350	10.011	34.924	2.96	132.0	46.8	9.970	26.898	35.711	44.137	0.801	1.47	349
400	9.919	34.929	2.72	121.3	42.9	9.872	26.919	35.736	44.166	0.862	1.22	399
450	9.793	34.932	2.55	114.0	40.2	9.741	26.943	35.766	44.201	0.923	1.47	449
500	9.376	34.903	2.55	114.0	39.8	9.319	26.990	35.832	44.284	0.982	1.57	499
600	9.025	34.933	2.03	90.6	31.4	8.958	27.073	35.929	44.396	1.097	1.84	599
700	8.233	34.911	1.89	84.5	28.8	8.159	27.180	36.072	44.572	1.203	1.90	699
800	8.572	35.079	1.22	54.4	18.7	8.484	27.262	36.137	44.621	1.301	1.26	799
900	8.387	35.137	1.12	50.0	17.1	8.289	27.338	36.221	44.713	1.395	1.51	899
1000	7.650	35.058	1.19	52.9	17.8	7.546	27.387	36.305	44.829	1.484	1.51	999
1200	6.704	35.016	1.32	58.7	19.3	6.586	27.489	36.452	45.018	1.648	1.39	1198
1400	5.688	34.955	1.66	74.2	23.8	5.559	27.573	36.586	45.200	1.797	1.26	1398
1600	3.707	34.776	2.60	116.2	35.5	3.582	27.650	36.766	45.477	1.924	1.44	1598
1800	2.832	34.752	3.17	141.6	42.3	2.700	27.714	36.877	45.631	2.031	0.99	1798
2000	2.522	34.767	3.11	138.8	41.2	2.377	27.754	36.934	45.705	2.127	0.99	1998
2500	2.167	34.759	3.26	145.6	42.8	1.983	27.780	36.982	45.773	2.350	0.38	2498
3000	1.997	34.750	3.47	155.0	45.4	1.769	27.789	37.003	45.805	2.572	0.49	2997
3462	1.532	34.728	3.96	176.7	51.1	1.269	27.809	37.051	45.880	2.775	---	3459

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
35	25.906	35.308	4.87	217.4	104.8	25.898	23.299	31.582	39.512	34
284	10.409	34.929	3.34	149.1	53.3	10.375	26.832	35.628	44.038	283
583	9.095	34.917	2.25	100.4	34.9	9.030	27.049	35.902	44.366	582
883	8.253	35.082	1.22	54.5	18.6	8.158	27.315	36.204	44.702	882
1171	6.826	---	1.23	---	---	---	---	---	---	---
1484	4.550	34.852	2.10	93.8	29.3	4.425	27.623	36.694	45.362	1482
1883	2.742	34.772	3.19	142.4	42.5	2.604	27.739	36.907	45.665	1881
2284	2.248	34.761	---	---	---	2.082	27.774	36.970	45.756	2282
2685	2.096	34.755	3.33	148.7	43.6	1.896	27.784	36.990	45.786	2683
3084	1.929	34.744	3.57	159.4	46.6	1.694	27.790	37.008	45.814	3081
3460	1.535	34.729	4.01	179.0	51.8	1.272	27.809	37.051	45.880	3458
3560	1.511	---	3.95	---	---	---	---	---	---	---



CDARWIN 26  
DATE: 7/20/87

STA: 8

LAT: 3° 23' 05"  
TIME: 0854

LOD: 43° 20' 00"

SONIC DEPTH: 3645 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2 SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.999	35.366	---	---	---	25.999	23.312	31.591	39.518	0.009	---	2
10	25.989	35.365	---	---	---	25.987	23.315	31.595	39.522	0.045	0.69	10
20	25.957	35.366	---	---	---	25.952	23.326	31.607	39.535	0.091	0.69	20
30	25.953	35.366	---	---	---	25.946	23.328	31.609	39.537	0.137	3.69	30
40	25.935	35.366	---	---	---	25.926	23.334	31.616	39.544	0.182	5.57	40
50	25.933	35.365	---	---	---	25.922	23.335	31.617	39.546	0.228	7.01	50
60	25.927	35.364	---	---	---	25.914	23.337	31.619	39.548	0.273	8.47	60
74	25.924	35.366	---	---	---	25.907	23.340	31.622	39.551	0.327	10.52	74
100	18.508	35.241	---	---	---	18.490	25.336	33.830	41.958	0.436	11.08	100
124	15.221	35.207	---	---	---	15.202	26.088	34.693	42.925	0.490	8.76	124
150	13.173	35.139	---	---	---	13.152	26.471	35.153	43.457	0.533	5.45	149
174	12.454	35.104	4.59	205.1	76.7	12.431	26.587	35.297	43.627	0.571	4.44	173
200	11.678	35.050	4.77	212.8	78.3	11.652	26.695	35.437	43.796	0.608	2.99	199
224	11.457	35.028	4.62	206.2	75.5	11.429	26.719	35.471	43.839	0.641	2.36	223
250	11.153	35.006	4.62	206.1	74.9	11.122	26.758	35.522	43.903	0.676	1.95	249
274	11.028	34.995	4.58	204.5	74.1	10.994	26.773	35.543	43.928	0.708	1.97	273
300	10.802	34.967	4.65	207.6	74.9	10.765	26.792	35.572	43.966	0.743	2.09	299
350	10.082	34.930	4.01	179.2	63.6	10.041	26.891	35.701	44.124	0.806	1.86	349
400	9.888	34.921	3.83	171.0	60.4	9.841	26.917	35.736	44.167	0.868	1.34	399
450	9.773	34.924	3.56	158.8	56.0	9.721	26.940	35.764	44.200	0.928	1.39	449
500	9.519	34.915	3.36	149.8	52.5	9.462	26.976	35.811	44.258	0.988	1.46	499
600	9.255	34.942	2.72	121.3	42.3	9.187	27.043	35.889	44.347	1.104	1.22	599
700	8.882	34.928	2.40	107.1	37.0	8.804	27.093	35.957	44.430	1.217	1.70	699
800	8.618	35.034	1.50	66.8	23.0	8.530	27.220	36.094	44.577	1.323	1.73	799
900	8.189	35.014	1.47	65.8	22.4	8.093	27.271	36.165	44.666	1.422	1.55	899
1000	7.812	35.047	1.28	57.2	19.3	7.707	27.355	36.265	44.783	1.516	1.75	998
1200	6.234	34.964	1.60	71.3	23.2	6.120	27.509	36.495	45.083	1.680	1.24	1198
1400	4.874	34.849	2.29	102.1	32.1	4.754	27.584	36.639	45.292	1.823	1.46	1398
1600	3.655	34.790	3.06	136.8	41.8	3.530	27.667	36.785	45.498	1.946	1.36	1598
1800	2.786	34.758	3.70	165.2	49.3	2.655	27.723	36.889	45.645	2.051	1.01	1798
2000	2.525	34.769	3.46	154.6	45.9	2.380	27.766	36.936	45.706	2.145	0.62	1998
2500	2.149	34.759	3.48	155.5	45.7	1.965	27.781	36.984	45.776	2.368	0.31	2498
3000	1.889	34.744	3.61	161.3	47.1	1.663	27.793	37.013	45.820	2.586	0.31	2997
3500	1.678	34.733	3.75	167.2	48.6	1.407	27.802	37.037	45.858	2.805	0.77	3497
3662	1.346	34.723	4.08	182.2	52.4	1.067	27.818	37.072	45.911	2.872	---	3659

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
633	9.241	34.942	2.81	125.4	43.7	9.170	27.046	35.893	44.351	631
883	8.335	35.015	1.39	62.1	21.2	8.240	27.250	36.137	44.632	881
1182	6.277	34.959	1.69	75.4	24.6	6.165	27.499	36.483	45.069	1180
1482	4.475	34.827	---	---	---	4.352	27.611	36.687	45.359	1480
1782	2.829	34.757	---	---	---	2.699	27.718	36.881	45.636	1780
2083	2.408	34.762	---	---	---	2.258	27.760	36.947	45.724	2081
2383	2.214	34.760	3.49	155.8	45.9	2.040	27.776	36.975	45.763	2381
2683	1.996	34.752	---	---	---	1.798	27.789	37.001	45.801	2681
2983	1.896	34.745	3.57	169.4	46.5	1.672	27.793	37.012	45.819	2980
3282	1.829	34.740	3.76	167.9	48.9	1.577	27.796	37.021	45.833	3279
3582	1.541	34.728	3.92	175.0	50.6	1.265	27.809	37.051	45.880	3579
3658	1.348	34.722	---	---	---	1.069	27.817	37.071	45.910	3655

CDARWIN 25  
DATE: 7/20/87

STA: 9

LAT: 3 23.0S  
TIME: 0915

LON: 43 20 0E

SONIC DEPTH: 3645 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.034	35.339	---	---	---	26.034	23.280	31.559	39.486	0.009	---	2
10	26.007	35.338	---	---	---	26.005	23.289	31.569	39.496	0.046	1.20	10
20	25.959	35.339	---	---	---	25.955	23.305	31.586	39.514	0.091	3.08	20
30	25.952	35.339	---	---	---	25.945	23.308	31.589	39.518	0.137	4.84	30
40	25.944	35.339	---	---	---	25.935	23.311	31.593	39.521	0.183	6.15	40
50	25.939	35.338	---	---	---	25.928	23.313	31.595	39.523	0.229	7.28	50
60	25.934	35.337	---	---	---	25.921	23.315	31.597	39.526	0.275	8.37	60
74	25.917	35.336	---	---	---	25.900	23.319	31.602	39.531	0.339	9.82	74
100	17.832	35.197	---	---	---	17.815	25.469	33.986	42.135	0.438	10.64	100
124	14.093	35.168	---	---	---	14.075	26.302	34.949	43.220	0.489	8.74	124
150	13.115	35.124	---	---	---	13.094	26.471	35.155	43.461	0.531	6.25	149
174	12.195	35.069	3.45	153.8	57.2	12.172	26.610	35.331	43.671	0.568	3.79	173
184	11.874	35.050	3.43	153.3	56.6	11.850	26.657	35.391	43.743	0.583	---	183

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
-3	26.064	---	---	---	---	---	---	---	---	---
5	26.026	35.339	---	---	---	26.025	23.283	31.563	39.489	5
15	25.965	---	---	---	---	---	---	---	---	---
25	25.953	---	---	---	---	---	---	---	---	---
39	25.943	---	---	---	---	---	---	---	---	---
70	25.918	35.335	---	---	---	25.902	23.319	31.601	39.530	69
83	25.176	35.281	---	---	---	25.158	23.507	31.809	39.757	82
93	19.440	35.161	---	---	---	19.423	25.037	33.502	41.604	92
103	16.750	---	---	---	---	---	---	---	---	---
112	15.933	35.201	---	---	---	15.915	25.923	34.503	42.712	112
183	11.880	35.050	---	---	---	11.856	26.656	35.390	43.742	183

CDARWIN 25  
DATE: 7/20/87

STA: 10

TIME: 1753

LAT: 3° 15.0S

LON: 43° 55' 0E

SONIC DEPTH: 3869 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.871	35.346	---	---	---	25.871	23.336	31.619	39.549	0.009	---	2
10	25.869	35.343	---	---	---	25.867	23.336	31.619	39.549	0.045	1.93	10
20	25.867	35.343	---	---	---	25.863	23.337	31.620	39.550	0.091	4.46	20
30	25.875	35.343	---	---	---	25.868	23.335	31.619	39.549	0.136	6.04	30
40	25.822	35.334	---	---	---	25.813	23.346	31.630	39.562	0.182	7.39	40
50	25.793	35.334	---	---	---	25.782	23.355	31.641	39.573	0.227	8.63	50
60	25.699	35.328	---	---	---	25.686	23.380	31.668	39.603	0.272	9.84	60
100	16.992	35.250	---	---	---	16.976	25.713	34.257	42.431	0.410	9.70	100
124	14.794	35.223	---	---	---	14.775	26.194	34.815	43.061	0.459	7.15	124
150	13.815	35.199	---	---	---	13.793	26.385	35.042	43.322	0.504	5.01	150
174	12.728	35.141	3.74	167.1	62.8	12.704	26.562	35.261	43.581	0.542	4.12	173
200	11.978	35.077	3.91	174.6	64.6	11.952	26.658	35.388	43.736	0.581	3.21	199
224	11.683	35.055	3.98	177.7	65.4	11.654	26.698	35.440	43.799	0.614	2.49	223
250	11.485	35.040	3.94	175.7	64.3	11.453	26.723	35.474	43.841	0.650	2.01	249
274	11.242	35.021	3.85	171.8	62.6	11.208	26.755	35.515	43.892	0.683	2.05	273
300	11.129	35.013	3.73	166.4	60.5	11.092	26.769	35.535	43.916	0.718	2.19	299
350	10.177	34.940	3.44	153.4	54.6	10.136	26.883	35.688	44.108	0.782	1.91	349
400	9.967	34.911	3.30	147.3	52.2	9.920	26.897	35.712	44.140	0.844	1.42	399
450	9.725	34.913	3.11	139.0	49.0	9.673	26.940	35.765	44.204	0.905	1.58	449
500	9.586	34.939	2.76	122.6	43.0	9.529	26.985	35.816	44.260	0.965	1.49	499
600	9.226	34.925	2.47	110.2	38.4	9.158	27.034	35.882	44.341	1.081	1.32	599
700	8.882	34.928	2.22	98.9	34.2	8.804	27.093	35.957	44.430	1.193	1.63	699
800	8.709	35.000	2.09	93.3	32.1	8.621	27.179	36.049	44.529	1.300	1.74	799
900	7.521	34.860	1.84	82.1	27.5	7.429	27.248	36.174	44.706	1.400	1.74	899
1000	6.793	34.914	1.63	72.9	24.0	6.696	27.393	36.352	44.915	1.491	1.95	999
1200	5.879	34.876	1.86	82.9	26.7	5.769	27.484	36.488	45.094	1.651	1.37	1198
1400	4.556	34.812	1.98	88.6	27.7	4.439	27.590	36.661	45.329	1.791	1.46	1398
1600	3.560	34.784	2.76	123.3	37.6	3.436	27.671	36.795	45.512	1.910	1.30	1598
1800	2.894	34.767	3.14	140.3	42.0	2.761	27.721	36.880	45.631	2.014	0.96	1798
2000	2.529	34.768	3.35	149.3	44.3	2.384	27.754	36.934	45.704	2.110	0.76	1998
2500	2.000	34.751	3.38	150.8	44.1	1.819	27.786	36.997	45.717	2.328	0.49	2498
3000	1.820	34.740	3.59	160.4	46.8	1.596	27.794	37.018	45.829	2.542	0.38	2997
3500	1.536	34.733	3.69	164.8	47.8	1.366	27.805	37.042	45.865	2.757	0.63	3497
3884	1.289	34.719	4.07	181.7	52.2	0.988	27.820	37.079	45.922	2.913	---	3881

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
Star	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
42	25.814	35.286	---	---	---	25.805	23.312	31.597	39.529	42
92	18.454	35.228	2.58	115.2	48.6	18.438	25.339	33.835	41.964	92
583	9.231	---	2.41	---	---	---	---	---	---	---
1082	6.513	---	---	---	---	---	---	---	---	---
1483	4.023	34.788	---	---	---	3.904	27.628	36.727	45.421	1481
1983	2.514	34.768	---	---	---	2.371	27.756	36.936	45.707	1981
2383	2.062	34.751	---	---	---	1.891	27.781	36.988	45.784	2380
2683	1.937	---	---	---	---	---	---	---	---	---
3082	1.814	34.739	---	---	---	1.582	27.795	37.019	45.831	3080
3482	1.648	34.733	3.82	170.5	49.5	1.380	27.805	37.041	45.863	3479
3783	1.341	34.723	4.18	186.6	53.7	1.049	27.819	37.074	45.915	3780
3883	1.296	34.721	---	---	---	0.995	27.822	37.079	45.923	3880

CDARWIN 25  
DATE: 7/21/87

STA: 11

LAT: 3° 4.0S  
TIME: 0337

LON: 44° 57' 0E

SONIC DEPTH: 4291 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	26.041	35.406	---	---	---	26.040	23.329	31.608	39.533	0.018	---	4
10	26.042	35.406	---	---	---	26.040	23.330	31.608	39.533	0.045	2.12	10
20	26.044	35.407	---	---	---	26.039	23.330	31.608	39.533	0.091	3.89	20
30	26.040	35.406	---	---	---	26.033	23.331	31.610	39.535	0.136	4.95	30
40	26.045	35.407	---	---	---	26.037	23.331	31.609	39.535	0.182	6.01	40
50	26.028	35.406	---	---	---	26.017	23.336	31.615	39.541	0.227	6.99	50
60	26.008	35.405	---	---	---	26.995	23.343	31.622	39.549	0.273	8.12	60
100	20.631	35.290	---	---	---	20.612	24.821	33.249	41.315	0.425	9.81	100
124	16.162	35.241	---	---	---	16.142	25.901	34.473	42.674	0.490	8.59	124
150	14.346	35.201	---	---	---	14.324	26.274	34.912	43.174	0.539	6.34	149
174	13.439	35.169	3.81	170.0	64.9	13.415	26.440	35.112	43.406	0.580	5.05	173
200	12.696	35.133	4.10	183.0	68.8	12.669	26.563	35.264	43.585	0.621	3.50	199
224	12.198	35.090	3.97	177.1	65.9	12.168	26.627	35.348	43.688	0.657	2.92	223
250	11.854	35.064	3.96	178.8	65.3	11.821	26.673	35.408	43.762	0.694	2.25	249
274	11.658	35.049	3.82	170.7	62.7	11.623	26.700	35.443	43.804	0.728	2.02	273
300	11.444	35.035	3.99	178.3	65.2	11.406	26.729	35.481	43.850	0.764	2.05	299
350	10.600	34.947	3.33	148.6	53.3	10.558	26.814	35.602	44.005	0.832	2.39	349
400	10.215	34.959	3.34	149.1	53.1	10.167	26.891	35.695	44.113	0.896	1.82	399
450	9.970	34.930	3.06	136.5	48.3	9.917	26.912	35.727	44.155	0.958	1.35	449
500	9.792	34.946	2.78	124.2	43.8	9.734	26.956	35.778	44.214	1.019	1.49	499
600	9.318	34.915	2.65	118.5	41.4	9.250	27.011	35.855	44.310	1.138	1.37	599
700	8.647	34.907	1.91	85.1	29.3	8.571	27.114	35.987	44.471	1.252	2.16	699
800	7.738	34.902	1.13	50.6	17.0	7.656	27.248	36.163	44.685	1.355	2.18	799
900	7.841	35.062	1.13	50.4	17.0	7.747	27.361	36.269	44.785	1.446	1.39	899
1000	7.299	35.026	1.24	55.4	15.5	7.198	27.412	36.346	44.885	1.532	1.34	998
1200	7.052	35.078	1.15	51.3	17.0	6.931	27.490	36.436	44.986	1.694	0.91	1198
1400	6.751	34.913	1.58	70.5	22.7	5.622	27.532	36.543	45.154	1.847	1.56	1398
1600	3.378	34.762	2.97	132.5	40.2	3.257	27.671	36.804	45.531	1.976	1.69	1598
1800	3.040	34.788	2.95	131.7	39.6	2.905	27.725	36.876	45.619	2.079	0.70	1798
2000	2.850	34.789	3.00	133.8	40.1	2.700	27.743	36.906	45.660	2.177	0.49	1998
2500	2.102	34.753	3.49	155.7	45.7	1.919	27.780	36.986	45.780	2.408	0.54	2498
3000	1.823	34.742	3.65	163.0	47.5	1.599	27.796	37.020	45.831	2.623	0.22	2997
3500	1.690	34.736	3.77	168.5	48.9	1.419	27.804	37.038	45.858	2.838	0.22	3497
4000	1.381	34.722	4.15	185.1	53.3	1.065	27.818	37.072	45.911	3.049	0.44	3997
4322	1.239	34.716	4.32	192.8	55.4	0.892	27.824	37.088	45.937	3.178	---	4319

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
30	26.038	35.363	4.98	222.3	107.5	26.031	23.299	31.578	39.504	30
182	13.130	35.133	3.08	137.5	52.2	13.105	26.476	35.160	43.465	181
483	9.748	34.902	2.96	132.1	46.6	9.692	26.928	35.753	44.191	482
984	7.486	35.030	1.26	56.3	18.8	7.385	27.388	36.314	44.845	982
1483	4.668	---	2.29	---	---	---	---	---	---	---
1982	2.848	---	3.04	---	---	---	---	---	---	---
2384	2.256	---	3.35	---	---	---	---	---	---	---
2784	1.920	---	3.51	---	---	---	---	---	---	---
3182	1.789	---	3.70	---	---	---	---	---	---	---
3553	1.659	---	3.82	---	---	---	---	---	---	---
4082	1.329	34.720	---	---	---	1.006	27.820	37.077	45.920	4079
4319	1.239	34.716	4.37	195.1	56.0	0.892	27.823	37.087	45.936	4316

CDARWIN 26  
DATE 7/21/87

STA 12

LAT: 2° 56.0S  
TIME: 0909

LON: 46° 27.0E

SONIC DEPTH: 4449 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	25.849	35.353	---	---	---	25.846	23.350	31.633	39.564	0.063	---	14
20	25.841	35.353	---	---	---	25.837	23.353	31.636	39.567	0.090	5.24	20
30	25.814	35.350	---	---	---	25.807	23.360	31.645	39.576	0.135	6.10	30
40	25.792	35.348	---	---	---	25.783	23.365	31.650	39.583	0.181	6.93	40
50	25.710	35.342	---	---	---	25.699	23.387	31.674	39.608	0.226	7.73	50
60	24.422	35.275	---	---	---	24.409	23.729	32.051	40.017	0.270	8.44	60
74	22.223	35.270	---	---	---	22.208	24.366	32.747	40.770	0.324	8.99	74
100	18.117	35.210	---	---	---	18.100	25.409	33.916	42.056	0.406	9.21	100
124	15.459	35.197	---	---	---	15.440	26.027	34.625	42.849	0.461	7.76	124
150	14.409	35.174	---	---	---	14.387	26.240	34.875	43.135	0.510	5.70	150
174	13.630	35.158	3.03	135.4	51.9	13.605	26.392	35.057	43.344	0.552	4.01	174
200	12.896	35.122	3.07	137.0	51.7	12.869	26.515	35.208	43.522	0.595	2.99	199
216	12.554	35.090	3.23	144.4	54.1	12.525	26.558	35.265	43.592	0.619	---	215

CDARWIN 25  
DATE: 7/21/87

STA: 13

TIME: 1423

LAT: 2° 51.05

LON: 46° 00.0E

SONIC DEPTH: 4653 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
26	25.634	35.377	---	---	---	25.628	23.435	31.724	39.659	0.116	---	26
30	25.628	35.376	---	---	---	25.621	23.437	31.726	39.661	0.134	5.38	30
40	25.606	35.375	---	---	---	25.597	23.444	31.733	39.669	0.178	6.09	40
50	25.589	35.375	---	---	---	25.578	23.449	31.739	39.676	0.223	6.67	50
60	25.488	35.373	---	---	---	25.475	23.480	31.772	39.711	0.267	7.23	60
74	23.136	35.292	---	---	---	23.121	24.121	32.477	40.476	0.324	7.63	74
100	19.979	35.313	---	---	---	19.961	25.012	33.459	41.543	0.415	8.59	100
124	18.805	35.236	---	---	---	18.783	25.258	33.743	41.862	0.481	7.89	124
150	15.324	35.217	---	---	---	15.301	26.073	34.675	42.904	0.545	7.09	150
174	14.754	35.202	2.94	131.1	51.4	14.728	26.188	34.811	43.059	0.590	5.72	174
200	13.527	35.170	3.34	148.9	57.0	13.499	26.424	35.092	43.383	0.637	4.66	199
224	13.161	35.161	3.22	143.8	54.6	13.130	26.492	35.174	43.479	0.676	3.71	223
250	12.339	35.099	3.45	154.2	57.5	12.306	26.607	35.323	43.658	0.716	3.19	249
274	12.014	35.076	3.44	153.7	56.9	11.978	26.663	35.381	43.728	0.751	2.73	273
300	11.819	35.059	3.39	151.3	55.8	11.780	26.677	35.414	43.769	0.788	2.59	299
350	10.712	34.961	3.59	160.3	57.7	10.669	26.805	35.588	43.987	0.857	2.27	349
400	10.379	34.945	3.42	152.9	54.6	10.331	26.852	35.649	44.061	0.922	1.82	399
450	10.029	34.941	3.07	137.2	48.7	9.976	26.910	35.723	44.149	0.985	1.99	449
500	9.459	34.900	2.96	132.1	46.2	9.402	26.975	35.813	44.262	1.045	1.84	499
600	9.043	34.908	2.46	110.0	38.2	8.976	27.051	35.907	44.373	1.161	1.85	599
700	8.219	34.900	2.13	95.0	32.4	8.145	27.174	36.067	44.568	1.268	1.90	699
800	7.819	34.935	1.71	76.2	25.7	7.736	27.262	36.173	44.691	1.367	1.63	799
900	7.897	35.049	1.22	54.4	18.4	7.802	27.343	36.249	44.762	1.459	1.54	899
1000	7.407	35.026	1.32	59.0	19.7	7.305	27.396	36.326	44.861	1.546	1.37	999
1200	6.603	34.988	1.45	64.6	21.2	6.486	27.480	36.448	45.020	1.709	1.46	1198
1400	5.135	34.867	2.04	90.9	28.8	5.012	27.568	36.610	45.250	1.856	1.51	1398
1600	4.014	34.797	2.60	116.0	35.7	3.885	27.637	36.737	45.432	1.985	1.62	1598
1800	3.147	34.794	2.87	128.1	38.6	3.011	27.720	36.866	45.604	2.093	0.91	1798
2000	2.887	34.786	2.99	133.7	40.0	2.737	27.738	36.899	45.651	2.193	0.58	1998
2500	2.246	34.757	3.37	150.6	44.4	2.061	27.772	36.970	45.757	2.429	0.66	2498
3000	1.803	34.736	3.75	167.3	48.7	1.579	27.752	37.017	45.829	2.649	0.49	2997
3500	1.635	34.731	3.85	172.0	49.9	1.365	27.804	37.041	45.864	2.863	0.31	3497
4000	1.513	34.726	3.95	176.4	51.0	1.193	27.812	37.059	45.892	3.075	0.22	3997
4500	1.316	34.718	4.23	188.9	54.3	0.946	27.822	37.083	45.929	3.285	0.44	4497
4730	1.279	34.716	4.29	191.6	55.1	0.884	27.824	37.089	45.938	3.380	---	4727

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
35	25.617	35.345	4.97	221.9	106.5	25.609	23.417	31.707	39.643	34
160	14.879	35.181	2.76	123.2	48.5	14.855	26.144	34.763	43.007	159
360	10.639	34.934	3.67	163.8	58.9	10.595	26.797	35.584	43.985	359
611	8.846	34.897	2.23	99.6	34.4	8.778	27.073	35.938	44.413	610
910	7.858	35.037	1.59	71.0	24.0	7.763	27.339	36.247	44.762	908
1512	4.802	34.864	2.07	92.4	29.0	4.672	27.605	36.664	45.320	1511
2010	2.878	34.786	---	---	---	2.727	27.739	36.900	45.653	2008
2510	2.229	34.757	3.45	154.0	45.4	2.043	27.774	36.972	45.760	2507
3011	1.816	34.737	3.74	167.0	48.7	1.591	27.792	37.016	45.828	3008
3511	1.629	34.729	---	---	---	1.368	27.803	37.040	45.864	3509
4011	1.514	34.727	---	---	---	1.193	27.813	37.059	45.892	4008
4718	1.280	34.715	4.39	196.0	56.3	0.886	27.824	37.088	45.937	4715

SONIC DEPTH: 4837 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
26	25.309	35.256	---	---	---	25.303	23.444	31.743	39.687	0.115	---	26
30	25.295	35.268	---	---	---	25.288	23.458	31.756	39.701	0.133	4.54	30
40	25.213	35.266	---	---	---	25.204	23.482	31.782	39.729	0.177	5.07	40
50	25.036	35.263	---	---	---	25.026	23.534	31.840	39.791	0.221	5.66	50
60	24.761	35.257	---	---	---	24.748	23.613	31.926	39.884	0.264	6.42	60
74	24.554	35.261	---	---	---	24.538	23.680	31.998	39.961	0.324	7.38	74
100	20.997	35.280	---	---	---	20.978	24.714	33.132	41.187	0.421	8.76	100
124	18.461	35.243	---	---	---	18.439	25.350	33.846	41.975	0.498	8.74	124
150	15.369	35.225	---	---	---	15.346	26.070	34.670	42.897	0.557	7.46	150
174	14.283	35.186	3.12	139.3	54.1	14.257	26.277	34.917	43.182	0.602	5.89	174
200	13.816	35.172	3.19	142.4	54.8	13.786	26.365	35.023	43.304	0.647	4.33	199
224	13.303	35.139	3.17	141.6	53.9	13.272	26.447	35.124	43.424	0.687	3.54	223
250	12.439	35.081	3.41	152.1	56.9	12.406	26.574	35.286	43.618	0.728	3.06	249
274	11.941	35.055	3.41	152.2	56.3	11.905	26.650	35.382	43.732	0.763	2.61	273
300	11.889	35.055	3.31	147.9	54.6	11.850	26.661	35.395	43.748	0.801	2.05	299
350	11.509	35.026	3.33	148.8	54.5	11.464	26.711	35.461	43.828	0.872	2.14	349
400	10.646	34.938	3.33	148.6	53.4	10.597	26.800	35.586	43.987	0.941	2.50	399
450	9.814	34.875	3.33	148.6	52.4	9.762	26.896	35.718	44.153	1.005	2.45	449
500	8.999	34.837	2.49	111.3	38.6	8.944	27.000	35.858	44.327	1.065	2.23	499
600	8.901	34.941	2.15	96.0	33.2	8.835	27.098	35.960	44.432	1.177	1.52	599
700	8.920	35.031	1.46	65.2	22.6	8.842	27.168	36.028	44.498	1.282	1.44	699
800	8.583	35.034	1.41	63.1	21.7	8.495	27.225	36.100	44.586	1.384	1.24	799
900	8.260	35.028	1.29	57.7	19.7	8.163	27.271	36.162	44.660	1.482	1.47	899
1000	7.271	34.944	1.58	70.7	23.6	7.170	27.351	36.288	44.830	1.575	1.88	999
1200	5.957	34.911	1.66	73.9	23.9	5.846	27.502	36.502	45.104	1.737	1.39	1198
1400	4.937	34.855	2.08	92.9	29.3	4.816	27.581	36.633	45.283	1.877	1.16	1398
1600	4.430	34.839	2.13	95.0	29.6	4.296	27.627	36.705	45.379	2.007	1.41	1598
1800	3.150	34.772	2.97	132.7	40.0	3.014	27.702	36.848	45.586	2.121	1.06	1798
2000	2.698	34.767	3.18	142.0	42.3	2.551	27.739	36.910	45.672	2.222	0.88	1998
2500	2.071	34.747	3.54	157.9	46.3	1.889	27.778	36.985	45.781	2.450	0.54	2498
3000	1.764	34.736	3.75	167.2	48.7	1.541	27.795					

[illegible]

CDARWIN 25  
DATE: 7/22/87

STA: 15

TIME: 0735

LAT: 2° 33.0S

LON: 47° 43.0E

SONIC DEPTH: 4857 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
24	25.391	35.259	---	---	---	25.386	23.421	31.718	39.660	0.107	---	24
30	25.371	35.258	---	---	---	25.364	23.427	31.724	39.667	0.134	4.91	30
40	25.316	35.256	---	---	---	25.307	23.443	31.741	39.686	0.178	5.36	40
50	25.213	35.253	---	---	---	25.202	23.473	31.774	39.721	0.223	5.61	50
60	25.113	35.253	---	---	---	25.100	23.503	31.807	39.757	0.267	6.49	60
74	24.744	35.257	---	---	---	24.728	23.620	31.933	39.891	0.328	7.86	74
100	20.909	35.268	---	---	---	20.890	24.729	33.149	41.207	0.419	9.05	100
150	15.106	35.204	---	---	---	15.083	26.112	34.722	42.958	0.549	6.78	150
174	14.570	35.178	2.73	122.1	47.7	14.544	26.209	34.839	43.093	0.594	4.81	174
200	14.061	35.152	2.82	126.0	48.7	14.032	26.299	34.948	43.220	0.641	3.01	199
220	12.950	35.077	3.08	137.4	51.9	12.920	26.469	35.161	43.474	0.675	---	219

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	---	35.265	---	---	---	---	---	---	---	---
17	---	35.261	---	---	---	---	---	---	---	---
27	25.505	35.259	---	---	---	25.499	23.386	31.680	39.619	27
43	25.288	35.255	---	---	---	25.279	23.451	31.750	39.695	42
74	24.529	35.258	---	---	---	24.513	23.685	32.004	39.968	74



CDARWIN 25  
DATE: 7/22/87

STA: 16

LAT: 2° 17.0S  
TIME: 1718

LON: 49° 00'E

SONIC DEPTH: 4398 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
24	25.518	35.266	---	---	---	25.513	23.387	31.680	39.619	0.108	---	24
30	25.485	35.266	---	---	---	25.478	23.398	31.692	39.632	0.135	3.95	30
40	25.407	35.267	---	---	---	25.398	23.423	31.719	39.661	0.180	4.82	40
50	25.370	35.269	---	---	---	25.359	23.437	31.734	39.676	0.224	5.48	50
60	25.354	35.271	---	---	---	25.341	23.444	31.741	39.684	0.269	6.31	60
74	25.334	35.274	---	---	---	25.318	23.453	31.751	39.695	0.331	7.76	74
100	21.261	35.285	---	---	---	21.242	24.646	33.055	41.104	0.434	9.26	100
124	20.374	35.266	---	---	---	20.351	24.873	33.309	41.382	0.510	8.90	124
150	15.616	35.234	---	---	---	15.593	26.021	34.613	42.832	0.574	7.31	150
174	14.528	35.201	3.23	144.4	56.4	14.502	26.236	34.867	43.123	0.620	6.07	173
200	13.831	35.173	3.27	146.0	56.2	13.802	26.363	35.020	43.300	0.666	4.52	199
224	13.133	35.122	3.40	151.9	57.6	13.102	26.468	35.152	43.458	0.706	3.55	223
250	12.482	35.084	3.47	154.7	57.9	12.448	26.568	35.278	43.608	0.747	3.17	249
274	12.131	35.064	3.62	161.5	60.0	12.095	26.621	35.345	43.688	0.783	2.86	273
300	11.819	35.032	3.62	161.8	59.7	11.780	26.656	35.394	43.749	0.822	2.68	299
350	10.848	34.960	3.67	159.3	57.6	10.806	26.780	35.558	43.951	0.891	2.36	349
400	10.325	34.917	3.51	156.5	55.9	10.277	26.840	35.640	44.054	0.958	2.54	399
450	10.065	35.013	2.44	109.0	38.7	10.012	26.961	35.771	44.194	1.019	2.13	449
500	9.119	34.856	2.83	126.4	43.9	9.063	26.996	35.849	44.312	1.078	1.99	499
600	8.810	34.975	2.22	99.0	34.2	8.744	27.139	36.005	44.480	1.188	1.76	599
700	8.687	35.024	1.47	65.7	22.6	8.610	27.199	36.070	44.550	1.290	1.12	699
800	8.536	35.029	1.31	58.4	20.0	8.449	27.229	36.106	44.592	1.390	1.18	799
900	7.988	34.999	1.42	63.4	21.5	7.893	27.289	36.192	44.702	1.487	1.98	899
1000	6.993	34.983	1.36	60.5	20.0	6.894	27.420	36.369	44.923	1.575	1.89	999
1200	6.132	34.939	1.50	66.8	21.7	6.019	27.502	36.493	45.086	1.731	1.16	1198
1400	4.957	34.881	1.96	87.6	27.6	4.836	27.600	36.650	45.298	1.870	0.93	1398
1600	4.322	34.841	2.29	102.1	31.7	4.189	27.640	36.724	45.403	1.997	1.12	1598
1800	3.241	34.785	2.85	127.2	38.4	3.104	27.704	36.845	45.579	2.112	1.39	1798
2000	2.822	34.775	3.11	138.8	41.5	2.673	27.735	36.899	45.654	2.213	0.73	1998
2500	2.077	34.745	3.56	159.0	46.7	1.895	27.776	36.983	45.779	2.445	0.62	2498
3000	1.731	34.732	3.85	171.8	50.0	1.509	27.794	37.023	45.839	2.658	0.22	2997
3500	1.626	34.730	3.89	173.8	50.4	1.356	27.804	37.041	45.865	2.870	0.22	3497
4000	1.491	34.725	4.02	179.6	51.9	1.172	27.813	37.061	45.894	3.082	0.22	3997
4500	1.367	34.719	4.24	189.1	54.5	0.996	27.820	37.078	45.921	3.291	0.31	4497
4502	1.367	34.719	4.24	189.2	54.5	0.996	27.820	37.078	45.921	3.292	---	4499

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
61	25.355	35.267	4.74	211.6	101.0	25.342	23.440	31.738	39.681	61
130	19.497	35.233	2.84	126.8	54.5	19.473	25.079	33.542	41.641	129
470	9.987	34.929	2.52	112.5	39.9	9.932	26.909	35.723	44.151	469
1110	6.429	34.949	1.43	63.8	20.9	6.323	27.471	36.447	45.026	1108
1810	3.198	34.783	2.86	127.7	38.5	3.060	27.706	36.850	45.585	1808
2510	2.056	34.753	3.54	158.0	46.3	1.873	27.784	36.992	45.788	2507
3510	1.620	34.730	3.88	173.2	50.2	1.349	27.804	37.042	45.866	3508
4259	1.396	34.724	4.17	186.2	53.7	1.051	27.820	37.075	45.915	4256
4489	1.366	---	4.31	---	---	---	---	---	---	---

CDARWIN 25  
DATE: 7/23/87

STA: 17

LAT: 2° 5.0S  
TIME: 0330

LON: 60° 00'E

SONIC DEPTH: 5068 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	25.436	35.347	---	---	---	25.433	23.473	31.767	39.707	0.062	---	14
20	25.427	35.347	---	---	---	25.423	23.476	31.771	39.711	0.088	4.01	20
30	25.383	35.348	---	---	---	25.376	23.491	31.787	39.728	0.133	4.50	30
40	25.374	35.350	---	---	---	25.365	23.496	31.792	39.734	0.177	4.97	40
50	25.344	35.353	---	---	---	25.333	23.508	31.805	39.747	0.221	5.41	50
60	25.224	35.359	---	---	---	25.211	23.550	31.850	39.795	0.264	6.21	60
74	23.527	35.408	---	---	---	23.512	24.096	32.440	40.427	0.323	7.45	74
100	21.748	35.360	---	---	---	21.728	24.569	32.963	40.997	0.416	8.54	100
124	21.314	35.362	---	---	---	21.290	24.691	33.098	41.145	0.496	8.85	124
150	15.165	35.283	---	---	---	15.142	26.159	34.766	43.000	0.556	7.60	150
174	14.696	35.279	3.46	154.4	60.5	14.670	26.260	34.884	43.133	0.601	6.13	173
200	13.524	35.222	3.33	148.7	56.9	13.496	26.465	35.133	43.424	0.646	4.22	199
224	13.211	35.205	3.51	156.8	59.6	13.180	26.516	35.197	43.498	0.684	3.16	223
250	12.955	35.184	3.53	157.4	59.5	12.921	26.552	35.242	43.554	0.724	2.78	249
274	12.649	35.160	3.53	157.5	59.2	12.612	26.594	35.297	43.620	0.761	2.77	273
300	12.127	35.122	3.69	164.9	61.2	12.087	26.668	35.392	43.734	0.799	3.05	299
350	10.708	34.977	3.86	172.1	62.0	10.665	26.819	35.602	44.000	0.868	2.97	349
400	10.144	35.015	2.82	125.9	44.8	10.097	26.947	35.754	44.174	0.929	2.06	399
450	10.046	35.023	2.41	107.8	39.3	9.993	26.972	35.782	44.206	0.989	1.66	449
500	9.831	35.049	2.17	97.0	34.3	9.773	27.029	35.849	44.281	1.046	1.74	499
600	9.442	35.062	1.66	74.1	26.0	9.373	27.106	35.943	44.391	1.157	1.61	599
700	8.192	34.899	2.23	99.6	33.9	8.118	27.177	36.071	44.573	1.262	1.80	699
800	7.922	34.935	1.87	83.3	28.2	7.838	27.248	36.154	44.667	1.359	1.60	799
900	7.581	35.040	1.38	61.8	20.8	7.489	27.381	36.301	44.828	1.449	1.85	899
1000	6.806	35.007	1.28	57.0	18.8	6.708	27.465	36.422	44.983	1.530	1.44	999
1200	6.221	34.980	1.39	62.2	20.2	6.107	27.523	36.510	45.098	1.679	0.85	1198
1400	4.891	34.898	1.95	87.0	27.4	4.771	27.621	36.674	45.325	1.816	1.10	1398
1600	4.424	34.884	2.16	96.4	30.0	4.290	27.663	36.741	45.415	1.939	1.19	1598
1800	3.653	34.822	2.57	114.6	35.0	3.510	27.695	36.814	45.527	2.053	1.06	1798
2000	2.828	34.775	3.15	140.7	42.1	2.679	27.735	36.899	45.653	2.156	0.91	1998
2500	2.098	34.752	3.52	157.3	46.2	1.915	27.780	36.986	45.780	2.386	0.62	2498
3000	1.764	34.736	3.80	169.7	49.4	1.541	27.796	37.022	45.837	2.601	0.31	2997
3500	1.620	34.731	3.91	174.7	50.7	1.351	27.805	37.043	45.867	2.813	0.38	3497
4000	1.479	34.726	4.05	181.0	52.3	1.160	27.814	37.063	45.897	3.023	0.31	3997
4500	1.366	34.720	4.25	189.9	54.7	0.995	27.820	37.078	45.922	3.233	0.31	4497
5000	1.321	34.716	4.41	197.1	56.7	0.893	27.824	37.088	45.937	3.442	0.00	4997
5146	1.299	34.714	---	---	---	0.854	27.825	37.091	45.942	3.504	---	5143

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
29	25.403	35.263	4.84	216.1	103.3	25.397	23.421	31.717	39.659	29
179	14.641	35.208	2.64	117.9	46.1	14.614	26.217	34.844	43.096	178
1100	6.372	34.948	1.36	60.7	19.8	6.267	27.477	36.456	45.038	1099
1999	2.829	34.769	3.08	137.5	41.1	2.680	27.730	36.894	45.648	1997
2599	1.998	34.745	3.61	161.2	47.2	1.808	27.782	36.994	45.794	2596
3197	1.683	34.732	3.87	172.8	50.2	1.443	27.799	37.032	45.851	3194
3796	1.535	34.727	4.11	183.5	53.1	1.237	27.810	37.054	45.884	3793
4398	1.396	34.721	4.19	187.1	53.9	1.036	27.819	37.074	45.916	4395
5137	1.296	34.715	4.43	197.8	56.9	0.852	27.826	37.092	45.943	5133

CDARWIN 26  
DATE: 7/23/87

STA: 18

TIME: 0815

LAT: 1° 47.0S

LON: 49° 48.0E

SONIC DEPTH: 5063 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
12	25.475	35.272	---	---	---	25.472	23.404	31.698	39.639	0.054	---	12
20	25.459	35.274	---	---	---	25.455	23.411	31.705	39.646	0.090	4.12	20
30	25.445	35.277	---	---	---	25.438	23.418	31.713	39.654	0.134	4.76	30
40	25.428	35.281	---	---	---	25.419	23.427	31.722	39.664	0.179	5.27	40
50	25.406	35.285	---	---	---	25.395	23.438	31.734	39.676	0.224	5.83	50
60	25.349	35.294	---	---	---	25.336	23.463	31.760	39.703	0.268	6.39	60
74	24.451	35.349	---	---	---	24.435	23.778	32.098	40.062	0.330	7.66	74
100	21.164	35.339	---	---	---	21.145	24.714	33.125	41.176	0.421	8.47	100
124	20.480	35.311	---	---	---	20.457	24.879	33.311	41.381	0.497	8.48	124
150	15.495	35.214	---	---	---	15.472	26.033	34.629	42.852	0.564	6.94	149
174	14.609	35.199	2.75	122.8	48.0	14.583	26.217	34.845	43.098	0.610	5.59	173
200	13.807	35.160	3.02	134.7	51.8	13.778	26.358	35.016	43.297	0.657	---	199

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
8	25.710	---	---	---	---	---	---	---	---	---
18	25.461	---	4.83	---	---	---	---	---	---	---
27	25.445	35.277	4.72	210.7	100.8	25.439	23.418	31.713	39.654	27
40	25.427	35.279	4.72	210.7	100.7	25.418	23.426	31.721	39.663	40
68	25.218	35.297	4.52	201.8	96.1	25.203	23.506	31.806	39.752	67
79	23.119	35.356	3.78	168.8	77.6	23.103	24.176	32.531	40.529	78
109	21.009	35.303	3.22	143.8	63.6	20.988	24.729	33.146	41.201	108

CDARWIN 25  
DATE: 7/23/87

STA: 19

LAT: 1° 22.0S  
TIME: 1350

LON: 49° 28' 0E

SONIC DEPTH: 5010 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.665	35.386	---	---	---	25.662	23.431	31.719	39.654	0.053	---	12
20	25.616	35.391	---	---	---	25.612	23.451	31.740	39.676	0.089	6.10	20
30	25.582	35.395	---	---	---	25.576	23.465	31.755	39.691	0.133	6.79	30
40	25.569	35.399	---	---	---	25.560	23.473	31.764	39.700	0.177	7.40	40
50	25.519	35.406	---	---	---	25.508	23.494	31.786	39.724	0.221	8.00	50
60	23.920	35.441	---	---	---	23.907	24.005	32.338	40.314	0.263	8.49	60
74	21.250	35.421	---	---	---	21.236	24.751	33.159	41.206	0.314	8.79	74
100	17.818	35.335	---	---	---	17.801	25.579	34.094	42.241	0.384	8.07	100
124	17.161	35.320	---	---	---	17.140	25.728	34.265	42.433	0.442	6.63	124
150	15.334	35.286	---	---	---	15.311	26.125	34.726	42.953	0.495	5.18	150
174	14.789	35.269	2.61	116.6	45.7	14.763	26.233	34.853	43.099	0.540	4.55	174
200	14.188	35.240	2.76	123.2	47.8	14.159	26.340	34.983	43.250	0.586	4.07	199
224	13.336	35.203	2.88	128.5	49.0	13.305	26.489	35.164	43.462	0.626	3.96	223
250	12.302	35.137	3.27	145.8	54.3	12.269	26.645	35.361	43.697	0.666	3.52	249
274	11.884	35.106	2.82	125.8	46.5	11.848	26.701	35.435	43.786	0.700	3.07	273
300	11.236	35.030	3.26	145.7	53.1	11.198	26.763	35.524	43.901	0.736	2.65	299
350	10.653	34.997	3.22	144.0	51.8	10.610	26.844	35.629	44.029	0.802	2.41	349
400	10.241	35.026	2.43	108.6	38.7	10.193	26.940	35.742	44.158	0.864	2.04	399
450	10.032	35.056	1.85	82.6	29.3	9.979	26.999	35.810	44.234	0.923	1.73	449
500	9.739	35.025	1.80	80.3	28.3	9.681	27.026	35.850	44.286	0.981	1.69	499
600	9.202	35.030	1.51	67.5	23.5	9.134	27.120	35.967	44.426	1.091	1.69	599
700	8.648	35.025	1.69	75.3	25.9	8.572	27.206	36.078	44.559	1.194	1.93	699
800	7.888	34.988	1.37	61.3	20.7	7.805	27.294	36.201	44.715	1.289	1.39	799
900	7.606	35.034	1.41	63.1	21.2	7.513	27.372	36.292	44.818	1.378	1.81	899
1000	6.860	35.010	1.35	60.0	19.8	6.762	27.460	36.415	44.974	1.460	1.55	999
1200	6.151	34.968	1.43	63.8	20.7	6.038	27.523	36.513	45.104	1.610	0.88	1198
1400	4.992	34.900	1.92	85.8	27.1	4.971	27.611	36.660	45.306	1.748	1.10	1398
1600	4.417	34.863	2.17	96.8	30.1	4.283	27.647	36.725	45.400	1.872	0.96	1598
1800	3.668	34.821	2.54	113.2	34.6	3.525	27.692	36.810	45.522	1.988	1.01	1798
2000	2.903	34.779	3.02	135.0	40.5	2.752	27.731	36.891	45.642	2.093	0.85	1998
2500	2.108	34.755	3.45	154.2	45.3	1.925	27.781	36.987	45.780	2.325	0.62	2498
3000	1.764	34.736	3.77	168.5	49.0	1.541	27.796	37.022	45.836	2.539	0.49	2998
3500	1.578	34.731	3.90	173.9	50.4	1.310	27.808	37.048	45.874	2.749	0.44	3497
4000	1.474	34.727	4.02	179.6	51.9	1.156	27.815	37.064	45.898	2.957	0.22	3997
4500	1.366	34.720	4.24	189.2	54.5	0.995	27.821	37.079	45.922	3.166	0.22	4497
5000	1.312	34.716	4.39	195.8	56.3	0.884	27.824	37.089	45.938	3.376	0.31	4997
5074	1.291	34.715	4.41	196.9	56.6	0.855	27.826	37.092	45.943	3.407	---	5071

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.519	---	4.77	---	---	---	---	---	---	---
600	9.210	34.953	1.61	71.9	25.0	9.142	27.059	35.907	44.366	599
1200	6.147	34.951	1.39	62.1	20.1	6.034	27.510	36.500	45.092	1198
1799	3.666	34.830	2.54	113.4	34.6	3.523	27.700	36.818	45.530	1797
2400	2.216	---	3.38	---	---	---	---	---	---	---
3000	1.762	34.737	3.81	170.1	49.5	1.539	27.796	37.023	45.837	2998
3599	1.535	34.730	3.96	176.8	51.1	1.257	27.811	37.054	45.883	3596
4199	1.429	---	4.13	---	---	---	---	---	---	---
5075	1.296	34.717	4.41	196.9	56.6	0.859	27.827	37.09	45.944	---

CDARWIN 25  
DATE: 7/23/87

STA: 20

LAT: 0° 42.0S  
TIME: 2304

LON: 48° 53.0E

SONIC DEPTH: 4847 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
12	26.021	35.419	---	---	---	26.018	23.346	31.625	39.550	0.054	---	12
20	26.021	35.419	---	---	---	26.017	23.347	31.625	39.551	0.090	5.61	20
30	26.008	35.432	---	---	---	26.001	23.361	31.640	39.566	0.136	6.16	30
40	25.932	35.467	---	---	---	25.923	23.412	31.692	39.620	0.181	6.68	40
50	25.196	35.495	---	---	---	25.186	23.661	31.960	39.904	0.224	7.22	50
60	24.199	35.480	---	---	---	24.186	23.951	32.277	40.246	0.266	7.66	60
74	22.551	35.480	---	---	---	22.536	24.433	32.803	40.814	0.318	8.19	74
100	19.776	35.349	---	---	---	19.758	25.093	33.546	41.636	0.398	8.09	100
124	17.874	35.351	---	---	---	17.853	25.579	34.092	42.238	0.463	7.34	124
150	16.027	35.304	---	---	---	16.003	25.982	34.558	42.762	0.522	6.16	150
174	15.160	35.287	2.75	122.9	48.6	15.133	26.165	34.772	43.005	0.569	5.46	173
200	14.135	35.249	2.92	130.5	50.6	14.106	26.358	35.003	43.271	0.616	4.72	199
224	13.309	35.196	3.27	146.1	55.7	13.278	26.489	35.166	43.464	0.656	4.34	223
250	12.095	35.128	2.99	133.4	49.5	12.062	26.677	35.402	43.745	0.696	3.89	249
274	11.533	35.072	3.32	148.3	54.4	11.498	26.741	35.489	43.854	0.729	3.35	273
300	10.820	35.007	3.35	149.3	53.9	10.783	26.821	35.599	43.992	0.764	2.80	299
350	10.473	35.025	2.69	120.0	43.0	10.431	26.897	35.689	44.096	0.826	1.91	349
400	10.267	35.025	2.40	107.1	38.2	10.219	26.934	35.735	44.150	0.887	1.76	399
450	10.019	35.031	2.05	91.5	32.6	9.966	26.983	35.794	44.219	0.946	1.78	449
500	9.890	35.061	1.78	79.5	28.1	9.831	27.029	35.846	44.276	1.004	1.52	499
600	9.377	35.023	1.61	71.9	25.2	9.309	27.086	35.926	44.377	1.116	1.66	599
700	8.791	35.030	1.50	67.0	23.1	8.714	27.188	36.054	44.529	1.221	1.80	699
800	8.064	35.014	1.59	71.2	24.2	7.980	27.289	36.187	44.694	1.319	1.72	799
900	7.681	35.048	1.35	60.4	20.3	7.588	27.373	36.289	44.812	1.409	1.67	899
1000	7.118	35.015	1.34	59.8	19.9	7.018	27.428	36.371	44.919	1.493	1.69	999
1200	6.218	34.979	1.47	65.6	21.3	6.104	27.523	36.510	45.098	1.645	1.14	1198
1400	4.910	34.894	1.93	86.1	27.1	4.789	27.615	36.667	45.318	1.781	1.01	1398
1600	4.322	34.861	2.20	98.2	30.5	4.189	27.656	36.739	45.418	1.905	1.12	1598
1800	3.646	34.824	2.57	114.8	35.1	3.503	27.697	36.816	45.529	2.019	0.99	1798
2000	2.782	34.785	3.08	137.5	41.1	2.633	27.747	36.913	45.670	2.122	0.93	1998
2500	2.111	34.757	3.44	153.5	45.1	1.928	27.783	36.988	45.781	2.350	0.49	2498
3000	1.784	34.739	3.76	167.9	48.9	1.561	27.796	37.022	45.835	2.565	0.44	2997
3500	1.616	34.732	3.93	175.3	50.8	1.347	27.806	37.044	45.868	2.776	0.44	3497
4000	1.459	34.725	4.11	183.3	52.9	1.141	27.815	37.065	45.900	2.985	0.31	3997
4500	1.328	34.718	4.31	192.4	55.4	0.958	27.822	37.082	45.927	3.192	0.22	4497
4910	1.272	34.714	4.47	199.3	57.3	0.856	27.826	37.091	45.942	3.362	---	4907

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
28	26.013	35.350	4.79	213.8	103.3	26.007	23.297	31.577	39.504	28
598	9.378	34.989	1.59	71.0	24.8	9.310	27.060	35.900	44.352	597
1199	6.220	34.953	1.36	60.7	19.7	6.107	27.502	36.489	45.078	1197
1800	3.646	34.816	2.53	112.9	34.5	3.503	27.690	36.810	45.523	1798
2400	2.196	34.759	3.38	150.9	44.4	2.021	27.777	36.977	45.766	2398
2999	1.783	34.738	3.75	167.4	48.7	1.560	27.796	37.021	45.834	2996
3599	1.560	34.730	3.92	175.0	50.7	1.282	27.809	37.051	45.879	3596
4200	1.396	34.722	4.19	187.1	53.9	1.058	27.818	37.072	45.912	4197
4909	1.266	34.715	---	---	---	0.850	27.826	37.092	45.944	4906

SONIC DEPTH: 4811 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
14	25.734	35.338	---	---	---	25.731	23.374	31.661	39.594	0.063	---	14
20	25.709	35.339	---	---	---	25.705	23.383	31.670	39.604	0.090	5.10	20
30	25.559	35.344	---	---	---	25.552	23.434	31.725	39.663	0.135	5.79	30
40	25.111	35.346	---	---	---	25.102	23.573	31.876	39.824	0.179	6.55	40
50	24.625	35.320	---	---	---	24.614	23.702	32.018	39.978	0.221	7.21	50
60	23.683	35.368	---	---	---	23.670	24.019	32.359	40.342	0.262	7.76	60
74	22.877	35.374	---	---	---	22.862	24.258	32.620	40.625	0.315	8.38	74
100	19.807	35.297	---	---	---	19.789	25.045	33.498	41.587	0.400	8.72	100
124	15.971	35.242	---	---	---	15.951	25.945	34.524	42.731	0.458	7.56	124
150	15.429	35.236	---	---	---	15.406	26.065	34.663	42.888	0.510	6.05	150
174	14.518	35.224	2.51	112.0	43.7	14.492	26.256	34.887	43.143	0.557	5.18	174
200	13.225	35.153	2.76	123.2	46.8	13.197	26.473	35.153	43.455	0.600	4.47	199
224	12.463	35.113	2.81	125.5	47.0	12.433	26.594	35.304	43.634	0.638	4.03	223
250	11.560	35.047	2.76	123.3	45.2	11.528	26.715	35.462	43.826	0.675	3.19	249
274	11.017	34.987	3.18	141.9	51.4	10.983	26.769	35.539	43.925	0.707	2.69	273
300	10.740	34.966	3.18	142.1	51.2	10.703	26.803	35.584	43.981	0.742	2.27	299
350	10.558	34.999	2.47	110.4	39.6	10.516	26.862	35.651	44.055	0.806	2.08	349
400	10.086	34.992	2.22	99.1	35.2	10.039	26.939	35.748	44.171	0.867	1.81	399
450	9.991	35.010	1.93	86.4	30.6	9.938	26.971	35.784	44.210	0.926	1.51	449
500	9.812	35.018	1.69	75.4	26.6	9.754	27.008	35.829	44.263	0.984	1.42	499
600	9.352	34.991	1.63	72.8	25.4	9.284	27.065	35.907	44.359	1.098	1.60	599
700	9.038	35.047	1.31	58.7	20.4	8.960	27.162	36.017	44.482	1.205	1.57	699
800	8.483	35.045	1.22	54.6	18.7	8.396	27.249	36.129	44.617	1.307	1.76	799
900	7.882	35.020	1.22	54.4	18.4	7.788	27.321	36.229	44.743	1.401	1.62	899
1000	7.436	35.020	1.14	51.1	17.1	7.334	27.388	36.315	44.849	1.489	1.46	999
1200	6.347	34.955	1.31	58.6	19.1	6.232	27.487	36.468	45.051	1.651	0.96	1198
1214	6.247	34.948	---	---	---	6.132	27.495	36.480	45.068	1.662	---	1214

[illegible]

CDARWIN 25  
DATE: 7/24/87

STA: 22

LAT: 0° 6.0S  
TIME: 0739

LON 48 26 0E

SONIC DEPTH: 4765 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG 0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
14	25.701	35.330	---	---	---	25.698	23.378	31.666	39.600	0.063	---	14
20	25.688	35.330	---	---	---	25.684	23.383	31.671	39.606	0.090	2.61	20
30	25.569	35.326	---	---	---	25.562	23.417	31.708	39.646	0.135	3.69	30
40	25.369	35.318	---	---	---	25.360	23.473	31.769	39.712	0.179	4.56	40
50	25.102	35.321	---	---	---	25.091	23.558	31.861	39.810	0.223	5.47	50
60	25.054	35.313	---	---	---	25.041	23.567	31.872	39.822	0.267	6.49	60
74	24.973	35.296	---	---	---	24.967	23.580	31.887	39.839	0.327	7.90	74
100	22.027	35.317	---	---	---	22.007	24.458	32.846	40.873	0.432	9.42	100
124	17.568	35.270	---	---	---	17.547	25.591	34.115	42.271	0.506	9.12	124
150	15.429	35.238	---	---	---	15.406	26.066	34.664	42.889	0.561	6.72	150
174	14.842	35.227	2.89	128.9	50.7	14.816	26.188	34.807	43.052	0.608	5.32	173
198	13.193	35.150	3.20	143.1	54.4	13.165	26.476	35.158	43.461	0.648	---	197

CDARWIN 25  
DATE: 7/24/87

STA: 23

TIME: 0854

LAT: 0° 7.0S

LON: 48° 25.0E

SONIC DEPTH: 4770 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
12	25.756	35.316	---	---	---	25.753	23.351	31.637	39.570	0.054	---	12
20	25.703	35.317	---	---	---	25.699	23.368	31.656	39.590	0.090	3.28	20
30	25.585	35.314	---	---	---	25.578	23.403	31.694	39.632	0.135	4.12	30
40	25.435	35.310	---	---	---	25.426	23.447	31.742	39.683	0.180	4.89	40
50	25.087	35.309	---	---	---	25.076	23.553	31.857	39.806	0.224	5.80	50
60	25.059	35.305	---	---	---	25.046	23.560	31.865	39.815	0.267	6.76	60
74	24.781	35.272	---	---	---	24.765	23.620	31.932	39.889	0.328	8.01	74
100	21.768	35.301	---	---	---	21.748	24.519	32.913	40.947	0.430	9.33	100
124	16.850	35.256	---	---	---	16.830	25.752	34.301	42.479	0.501	8.96	124
150	15.398	35.227	---	---	---	15.375	26.065	34.664	42.890	0.555	6.73	149
174	14.648	35.202	2.48	110.7	43.3	14.622	26.211	34.838	43.089	0.601	5.14	173
196	13.123	35.142	2.79	124.6	47.2	13.096	26.484	35.168	43.474	0.638	---	195

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
2	---	35.317	4.86	---	---	---	---	---	---	---
8	25.758	35.314	4.86	217.0	104.3	25.756	23.348	31.634	39.568	---
8	25.758	35.316	---	---	---	25.756	23.350	31.636	39.569	---
16	25.760	35.316	4.69	209.4	100.7	25.757	23.350	31.636	39.569	16
24	25.627	35.317	4.62	206.3	99.0	25.622	23.392	31.682	39.618	24
35	25.503	35.313	4.60	205.4	98.3	25.495	23.428	31.721	39.660	35
62	25.056	35.303	4.51	201.3	95.7	25.042	23.559	31.864	39.814	62
78	24.570	35.272	4.36	194.6	91.7	24.553	23.684	32.002	39.964	78
199	13.127	35.141	2.79	124.6	47.2	13.099	26.483	35.167	43.472	---



SONIC DEPTH: 4760 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
14	25.877	35.366	---	---	---	25.874	23.350	31.633	39.583	0.063	---	14
20	25.800	35.368	---	---	---	25.796	23.377	31.661	39.593	0.090	3.03	20
30	25.671	35.383	---	---	---	25.664	23.429	31.717	39.651	0.135	3.99	30
40	25.253	35.351	---	---	---	25.244	23.534	31.833	39.778	0.179	4.57	40
50	25.029	35.328	---	---	---	25.018	23.586	31.891	39.841	0.222	5.24	50
60	24.994	35.325	---	---	---	24.981	23.594	31.900	39.852	0.266	6.39	60
74	24.959	35.328	---	---	---	24.943	23.608	31.915	39.867	0.326	7.79	74
100	21.664	36.324	---	---	---	21.644	24.585	32.962	40.999	0.430	9.41	100
124	16.691	35.264	---	---	---	16.671	25.795	34.349	42.533	0.501	9.49	124
150	15.408	35.252	---	---	---	15.385	26.082	34.681	42.906	0.554	7.71	150
174	13.779	35.208	2.72	121.5	46.7	13.754	26.400	35.059	43.341	0.598	5.89	173
200	12.685	35.140	3.02	134.8	50.7	12.658	26.570	35.271	43.593	0.640	4.30	199
224	11.984	35.103	3.01	134.5	49.8	11.955	26.678	35.407	43.755	0.675	3.41	223
250	11.610	35.063	3.07	137.1	50.3	11.578	26.719	35.463	43.826	0.711	2.54	249
274	11.333	35.029	3.27	146.2	53.3	11.298	26.744	35.501	43.874	0.744	2.07	273
300	11.101	35.011	3.23	144.2	52.4	11.064	26.773	35.539	43.922	0.779	1.82	299
350	10.642	34.974	3.15	140.8	50.6	10.599	26.828	35.614	44.014	0.846	2.18	349
400	10.156	34.995	2.20	98.4	35.0	10.109	26.930	35.736	44.155	0.909	2.35	399
450	9.933	35.029	1.88	83.9	29.7	9.880	26.995	35.811	44.239	0.967	1.71	449
500	9.883	35.049	1.71	76.4	27.0	9.824	27.021	35.838	44.269	1.025	1.46	499
600	9.640	35.067	1.48	66.1	23.3	9.570	27.078	35.906	44.346	1.137	1.51	599
700	9.130	35.072	1.21	53.8	18.7	9.051	27.167	36.017	44.478	1.244	1.73	699
800	8.750	35.133	1.07	47.6	16.4	8.661	27.276	36.143	44.619	1.343	1.77	799
900	8.068	35.067	1.12	50.0	17.0	7.972	27.331	36.229	44.735	1.435	1.22	899
1000	7.366	35.039	1.18	52.8	17.6	7.264	27.412	36.343	44.880	1.523	1.57	999
1200	6.120	34.948	1.49	66.3	21.5	6.007	27.511	36.503	45.096	1.682	1.65	1198
1400	4.891	34.876	1.98	88.4	27.8	4.771	27.604	36.657	45.309	1.821	1.39	1398
1600	4.256	34.848	2.25	100.6	31.2	4.124	27.652	36.739	45.422	1.943	0.79	1598
1800	3.472	34.807	2.67	119.0	36.2	3.331	27.700	36.829	45.550	2.058	1.28	1798
2000	2.748	34.780	3.02	136.0	40.3	2.600	27.746	36.914	45.672	2.157	0.91	1998
2500	2.062	34.754	3.41	152.3	44.7	1.880	27.784	36.992	45.7			

[illegible]

CDARWIN 25  
DATE: 7/24/87

STA: 25

TIME: 1707

LAT: 0 24 ON

LON: 48 7 OE

SONIC DEPTH: 4658 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	25.742	35.304	---	---	---	25.739	23.346	31.633	39.566	0.063	---	14
20	25.739	35.303	---	---	---	25.735	23.347	31.634	39.567	0.090	1.98	20
30	25.722	35.302	---	---	---	25.715	23.352	31.639	39.574	0.136	3.17	30
40	25.640	35.299	---	---	---	25.631	23.375	31.665	39.601	0.181	4.17	40
50	25.561	35.297	---	---	---	25.550	23.399	31.691	39.629	0.226	5.17	50
60	25.510	35.296	---	---	---	25.497	23.414	31.707	39.646	0.271	6.32	60
74	25.415	35.291	---	---	---	25.399	23.441	31.737	39.679	0.333	7.74	74
100	22.468	35.275	---	---	---	22.448	24.302	32.677	40.693	0.445	9.76	100
124	17.714	35.273	---	---	---	17.693	25.558	34.078	42.229	0.521	9.71	124
150	15.213	35.221	---	---	---	15.190	26.101	34.708	42.940	0.576	8.10	149
174	13.819	35.194	2.31	103.0	39.7	13.794	26.381	35.038	43.319	0.619	6.22	173
200	12.762	35.125	2.52	112.7	42.4	12.735	26.544	35.242	43.581	0.661	4.55	199
224	11.667	35.048	3.01	134.2	49.4	11.638	26.696	35.438	43.799	0.696	3.61	223
250	11.283	35.028	2.75	122.9	44.8	11.252	26.751	35.510	43.885	0.732	2.72	249
274	10.847	34.966	3.27	146.2	52.8	10.813	26.783	35.560	43.953	0.763	2.00	273
300	10.675	34.952	3.32	148.4	53.4	10.639	26.804	35.588	43.988	0.798	1.64	299
350	10.472	34.949	3.04	135.5	48.5	10.430	26.838	35.631	44.039	0.863	1.96	349
400	10.145	34.974	2.44	108.9	38.7	10.098	26.915	35.722	44.143	0.925	1.85	399
450	10.022	34.989	2.13	94.9	33.6	9.969	26.949	35.761	44.186	0.986	1.54	449
500	9.897	35.017	1.82	81.3	28.8	9.838	26.993	35.811	44.241	1.045	1.72	499
600	9.503	35.054	1.46	65.0	22.8	9.434	27.090	35.924	44.369	1.158	1.58	599
700	9.100	35.078	1.19	53.3	18.5	9.021	27.176	36.028	44.490	1.266	1.90	699
800	8.399	35.076	1.08	48.3	16.5	8.312	27.286	36.169	44.661	1.364	1.58	799
900	8.096	35.069	1.04	46.3	15.7	8.000	27.328	36.225	44.730	1.457	1.59	899
1000	7.291	35.027	1.14	51.1	17.0	7.190	27.413	36.348	44.888	1.545	1.55	999
1200	6.046	34.929	1.45	64.8	21.0	5.934	27.505	36.501	45.098	1.703	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.566	35.298	1.78	213.4	102.3	25.565	23.398	31.690	39.628	49
149	15.321	35.225	2.53	112.9	44.8	15.298	26.080	34.682	42.911	149
300	10.675	34.952	3.29	146.9	52.8	10.639	26.803	35.588	43.988	299
449	10.023	34.988	2.16	96.4	34.2	9.970	26.948	35.760	44.186	448
599	9.508	35.064	1.38	61.6	21.6	9.439	27.089	36.923	44.368	597
750	8.821	35.081	1.12	50.0	17.3	8.738	27.224	36.088	44.562	749
900	8.102	35.069	1.05	46.9	15.9	8.006	27.327	36.224	44.729	899
1049	6.895	34.980	1.22	54.5	18.0	6.792	27.432	36.386	44.944	1048
1199	6.076	34.926	1.46	65.2	21.1	5.964	27.499	36.493	45.089	1197

CDARWIN 25  
DATE: 7/24/87

STA: 26

LAT: 0° 43.0N  
TIME: 2139

LON: 47° 51.0E

SONIC DEPTH: 4540 m

Ph dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	26.004	35.329	---	---	---	26.001	23.283	31.563	39.491	0.064	---	14
20	26.005	35.330	---	---	---	26.000	23.284	31.564	39.491	0.092	1.72	20
30	26.005	35.329	---	---	---	25.998	23.284	31.565	39.492	0.138	2.15	30
40	25.984	35.326	---	---	---	25.976	23.289	31.570	39.498	0.183	3.19	40
50	25.939	35.321	---	---	---	25.928	23.300	31.582	39.511	0.229	4.56	50
60	25.803	35.312	---	---	---	25.790	23.336	31.621	39.554	0.275	5.97	60
74	25.619	35.302	---	---	---	25.603	23.387	31.677	39.614	0.339	7.54	74
100	24.986	35.285	---	---	---	24.964	23.670	31.877	39.829	0.455	9.89	100
124	17.422	35.236	---	---	---	17.401	25.600	34.130	42.291	0.541	10.27	124
150	14.904	35.225	---	---	---	14.881	26.172	34.789	43.032	0.594	8.47	149
174	13.839	35.208	2.91	130.0	50.0	13.814	26.388	35.044	43.324	0.637	6.41	173
200	12.793	35.143	3.09	138.0	52.0	12.766	26.551	35.248	43.566	0.678	4.29	199
224	11.761	35.062	3.42	152.5	56.2	11.732	26.689	35.427	43.784	0.714	3.48	223
250	11.555	35.059	3.37	150.5	55.2	11.523	26.726	35.473	43.837	0.750	2.72	249
274	11.229	35.019	3.37	150.3	54.7	11.195	26.756	35.517	43.894	0.782	2.25	273
300	10.928	35.003	3.54	157.8	57.1	10.891	26.798	35.572	43.961	0.817	1.98	299
350	10.622	34.990	3.09	137.8	49.5	10.580	26.844	35.630	44.032	0.852	1.67	349
400	10.377	34.993	2.84	126.7	45.3	10.329	26.890	35.687	44.098	0.945	1.80	399
450	10.080	35.000	2.32	103.4	36.7	10.027	26.948	35.757	44.180	1.006	1.91	449
500	9.759	35.009	2.03	90.6	31.9	9.701	27.010	35.833	44.269	1.065	1.55	499
600	9.579	35.069	1.57	70.2	24.7	9.510	27.089	35.920	44.362	1.178	1.52	599
700	9.707	35.220	1.29	57.8	20.4	9.625	27.188	36.012	44.447	1.285	1.99	699
800	8.307	35.064	1.21	54.2	18.5	8.221	27.291	36.178	44.673	1.382	1.44	799
900	7.931	35.065	1.21	53.9	18.2	7.836	27.350	36.255	44.766	1.474	1.64	899
1000	7.248	35.027	1.26	56.2	18.7	7.147	27.420	36.356	44.898	1.560	1.54	999
1200	6.253	34.958	1.42	63.3	20.6	6.139	27.501	36.486	45.074	1.719	1.89	1198
1400	4.914	34.879	1.98	88.6	27.9	4.793	27.604	36.656	45.306	1.855	1.36	1398
1600	4.309	34.851	2.26	100.7	31.2	4.176	27.649	36.733	45.413	1.979	0.96	1598
1800	3.381	34.802	2.69	120.0	36.4	3.242	27.704	36.838	45.564	2.095	1.60	1798
2000	2.664	34.775	3.14	140.2	41.8	2.517	27.749	36.921	45.685	2.194	0.82	1998
2500	2.120	34.755	3.41	152.2	44.7	1.937	27.781	36.985	45.778	2.420	0.49	2498
3000	1.827	34.741	3.64	162.5	47.4	1.603	27.794	37.018	45.828	2.636	0.31	2997
3500	1.644	34.733	3.80	169.7	49.2	1.374	27.805	37.041	45.864	2.849	0.22	3497
4000	1.442	34.725	4.03	180.1	52.0	1.124	27.816	37.066	45.903	3.058	0.38	3997
4500	1.339	34.719	4.22	188.5	54.3	0.969	27.822	37.081	45.926	3.266	0.44	4497
4600	1.349	34.719	4.20	187.6	54.0	0.967	27.822	37.081	45.926	3.307	---	4597

Ph dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
28	26.004	35.313	4.86	217.0	104.8	25.998	23.272	31.552	39.480	28
346	10.624	34.986	3.10	138.4	49.7	10.582	26.840	35.627	44.028	346
719	9.574	35.209	1.08	48.2	17.0	9.490	27.202	36.031	44.473	718
1197	6.289	34.959	1.44	64.3	20.9	6.175	27.498	36.481	45.067	1196
1798	3.408	34.804	2.68	119.6	36.3	3.268	27.704	36.835	45.560	1795
2598	2.045	34.754	3.39	151.3	44.4	1.854	27.786	36.995	45.793	2596
3197	1.759	34.738	3.75	167.4	48.7	1.517	27.799	37.027	45.842	3194
3799	1.508	34.728	4.05	180.8	52.3	1.210	27.813	37.058	45.890	3796
4592	1.326	34.720	4.30	192.0	55.2	0.944	27.824	37.085	45.931	---

CDARWIN 25  
DATE: 7/25/87

STA: 27

LAT: 0° 55.0N  
TIME: 0124

LON: 47° 43.0E

SONIC DEPTH: 4433 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
18	25.950	35.303	---	---	---	25.946	23.281	31.562	39.491	0.083	---	18
20	25.941	35.302	---	---	---	25.940	23.282	31.564	39.493	0.092	1.75	20
30	25.870	35.296	---	---	---	25.863	23.301	31.585	39.516	0.138	2.30	30
40	25.744	35.291	---	---	---	25.735	23.337	31.624	39.558	0.184	2.17	40
50	25.674	35.290	---	---	---	25.663	23.359	31.648	39.583	0.229	3.42	50
60	25.658	35.289	---	---	---	25.645	23.364	31.653	39.589	0.275	5.48	60
74	25.623	35.289	---	---	---	25.607	23.375	31.666	39.603	0.338	7.61	74
100	24.622	35.275	---	---	---	24.601	23.672	31.988	39.950	0.453	10.78	100
124	16.671	35.251	---	---	---	16.651	25.790	34.345	42.529	0.533	10.84	124
150	14.492	35.211	---	---	---	14.470	26.251	34.883	43.139	0.584	7.92	149
174	13.651	35.200	2.95	131.9	50.5	13.526	26.441	35.108	43.398	0.625	4.97	173
200	12.365	35.109	3.07	137.1	51.2	12.338	26.609	35.323	43.656	0.666	4.05	199
224	11.724	35.058	3.16	141.0	51.9	11.695	26.693	35.433	43.791	0.700	3.13	223
250	11.667	35.068	2.80	125.0	46.0	11.635	26.712	35.454	43.814	0.736	2.47	249
274	11.130	35.013	3.02	135.0	49.1	11.096	26.769	35.534	43.915	0.769	2.08	273
300	11.024	35.016	2.81	125.5	45.5	10.987	26.791	35.560	43.945	0.803	1.89	299
350	10.784	35.017	2.57	114.5	41.3	10.741	26.836	35.615	44.010	0.869	1.52	349
400	10.419	34.965	2.77	123.8	44.3	10.371	26.861	35.656	44.066	0.933	1.77	399
450	10.099	34.987	2.20	98.3	34.9	10.046	26.934	35.743	44.165	0.995	2.25	449
500	9.632	35.011	1.69	75.4	26.5	9.574	27.033	35.862	44.303	1.054	1.96	499
600	9.535	35.046	1.49	66.5	23.3	9.466	27.079	35.911	44.356	1.166	1.54	599
700	9.288	35.105	1.26	56.4	19.7	9.208	27.167	36.010	44.464	1.274	1.73	699
800	8.703	35.118	1.08	48.0	16.6	8.615	27.272	36.141	44.620	1.374	1.67	799
900	8.272	35.075	1.09	48.8	16.6	8.175	27.307	36.196	44.693	1.168	1.64	899
1000	7.569	35.064	1.08	48.2	16.2	7.466	27.404	36.325	44.852	1.557	1.72	999
1200	6.483	34.966	1.29	57.6	18.9	6.367	27.478	36.452	45.029	1.717	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	25.690	35.290	4.65	207.6	99.7	25.679	23.354	31.642	39.577	49
189	13.062	---	3.74	---	---	---	---	---	---	---
228	11.717	35.065	2.88	128.6	47.3	11.688	26.699	35.440	43.798	228
398	10.421	34.969	2.77	123.7	44.2	10.373	26.864	35.659	44.069	397
499	9.633	35.011	1.73	77.2	27.2	9.576	27.033	35.861	44.302	498
749	9.287	35.156	1.11	49.6	17.3	9.201	27.208	36.051	44.505	748
849	8.329	35.063	1.12	50.0	17.1	8.237	27.288	36.174	44.669	848
1000	7.577	35.066	1.06	47.3	15.9	7.474	27.404	36.325	44.852	998
1199	6.495	34.971	1.30	58.0	19.0	6.379	27.481	36.454	45.031	1198

CDARWIN 25  
DATE: 7/25/87

STA: 28

TIME: 0646

LAT: 1° 15' 0N

LOD: 47° 29' 0E

SONIC DEPTH: 4219 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
20	25.486	35.330	---	---	---	25.482	23.445	31.738	39.677	0.089	---	20
30	25.481	35.329	---	---	---	25.474	23.447	31.740	39.680	0.133	1.07	30
40	25.483	35.329	---	---	---	25.474	23.447	31.740	39.680	0.178	0.98	40
50	25.483	35.329	---	---	---	25.472	23.447	31.740	39.680	0.222	2.25	50
60	25.464	35.327	---	---	---	25.451	23.452	31.746	39.687	0.267	4.96	60
74	25.441	35.325	---	---	---	25.425	23.459	31.754	39.694	0.329	7.30	74
100	24.993	35.304	---	---	---	24.971	23.582	31.888	39.840	0.444	11.05	100
124	15.981	35.260	---	---	---	15.961	25.957	34.535	42.742	0.523	10.85	124
150	14.681	35.213	---	---	---	14.659	26.212	34.837	43.088	0.574	7.39	150
174	13.867	35.189	2.81	125.4	48.3	13.842	26.368	35.023	43.302	0.616	4.13	173
200	13.506	35.171	2.80	125.1	47.8	13.478	26.429	35.098	43.390	0.660	3.72	199
224	12.882	35.138	2.84	127.0	47.9	12.851	26.530	35.224	43.538	0.699	3.43	223
250	12.038	35.084	2.91	129.7	48.1	12.005	26.654	35.381	43.727	0.737	2.98	249
274	11.908	35.069	2.84	126.7	46.8	11.872	26.667	35.400	43.751	0.772	2.74	270
300	11.544	35.071	2.54	113.5	41.6	11.506	26.738	35.486	43.850	0.808	2.58	299
350	10.387	34.946	3.11	138.9	49.6	10.345	26.850	35.647	44.058	0.874	2.17	349
400	10.401	35.000	2.44	108.8	38.9	10.353	26.891	35.687	44.097	0.938	1.63	399
450	10.167	34.986	2.30	102.6	36.6	10.114	26.922	35.728	44.147	1.000	1.98	449
500	9.802	34.999	1.76	78.7	27.8	9.744	26.995	35.817	44.251	1.059	1.90	499
600	9.512	35.030	1.51	67.5	23.7	9.443	27.069	35.903	44.349	1.173	1.24	599
700	9.215	35.096	1.29	57.8	20.1	9.136	27.172	36.018	44.476	1.282	1.93	699
800	8.838	35.131	1.08	48.0	16.6	8.749	27.261	36.124	44.596	1.382	1.47	799
900	8.230	35.097	1.06	47.5	16.2	8.133	27.330	36.221	44.719	1.477	1.67	899
1000	7.715	35.079	1.08	48.2	16.2	7.611	27.394	36.309	44.830	1.566	1.69	999
1200	6.155	34.957	1.34	60.0	19.5	6.042	27.514	36.504	45.095	1.726	1.62	1198
1400	4.916	34.880	1.79	79.8	25.1	4.795	27.604	36.656	45.306	1.863	1.12	1398
1600	4.597	34.894	2.03	90.7	28.4	4.461	27.652	36.721	45.387	1.989	1.23	1598
1800	3.359	34.813	2.57	114.9	34.8	3.220	27.715	36.850	45.577	2.101	0.99	1798
2000	3.025	34.795	2.76	123.0	37.0	2.873	27.733	36.887	45.631	2.202	0.73	1998
2500	2.134	34.759	3.26	145.3	42.7	1.951	27.783	36.986	45.779	2.433	0.54	2498
3000	1.833	34.742	3.60	160.5	46.8	1.609	27.795	37.018	45.829	2.649	0.38	2997
3500	1.663	34.735	3.77	168.3	48.9	1.392	27.806	37.041	45.863	2.865	0.49	3497
4000	1.463	34.727	4.08	182.3	52.6	1.145	27.816	37.065	45.901	3.075	0.44	3997
4266	1.423	34.724	4.16	185.6	53.5	1.077	27.818	37.071	45.910	3.186	---	4263

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	25.482	35.317	4.60	205.4	98.3	25.471	23.438	31.732	39.672	49
319	11.390	35.075	2.40	107.1	39.2	11.349	26.770	35.524	43.895	318
769	9.017	35.124	1.12	50.0	17.4	8.931	27.227	36.082	44.547	767
1099	6.858	35.003	1.19	53.1	17.5	6.750	27.456	36.411	44.971	1098
1799	3.362	34.813	2.60	116.1	35.2	3.223	27.715	36.849	45.576	1797
2499	2.129	34.763	3.27	146.0	42.9	1.946	27.786	36.990	45.783	2496
3199	1.819	34.743	3.51	156.7	45.7	1.575	27.798	37.023	45.835	3196
3700	1.550	34.730	3.93	175.4	50.8	1.261	27.811	37.053	45.882	3697
4267	1.430	34.723	---	---	---	1.083	27.817	37.070	45.909	---

CDARWIN 25  
DATE: 7/26/87

STA: 29

TIME: 0843

LAT: 1° 20.0N

LON: 47° 20.0E

SONIC DEPTH: 4179 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
12	25.413	35.306	---	---	---	25.410	23.449	31.744	39.685	0.053	---	12
20	25.305	35.303	---	---	---	25.301	23.480	31.778	39.722	0.088	2.99	20
30	25.200	35.296	---	---	---	25.194	23.508	31.809	39.756	0.132	3.49	30
40	25.053	35.292	---	---	---	25.044	23.550	31.855	39.805	0.176	3.88	40
50	24.960	35.296	---	---	---	24.949	23.582	31.889	39.842	0.219	4.35	50
60	24.859	35.292	---	---	---	24.846	23.611	31.920	39.875	0.262	5.02	60
74	24.430	35.288	---	---	---	24.414	23.738	32.059	40.025	0.322	6.36	74
100	22.875	35.288	---	---	---	22.865	24.195	32.559	40.564	0.425	8.24	100
124	21.351	35.282	---	---	---	21.327	24.620	33.027	41.073	0.512	9.10	124
150	16.063	35.233	---	---	---	16.039	25.919	34.495	42.699	0.582	7.88	149
174	14.627	35.192	2.42	108.1	42.3	14.601	26.208	34.836	43.088	0.629	6.39	173
200	13.629	35.160	2.41	107.8	41.3	13.601	26.395	35.060	43.347	0.674	---	199

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
2	---	35.308	4.56	---	---	---	---	---	---	---
11	25.387	35.305	4.55	203.1	97.1	25.385	23.456	31.752	39.694	---
20	25.312	35.302	4.53	202.2	96.5	25.308	23.477	31.775	39.719	20
30	25.202	35.295	4.48	200.0	95.3	25.195	23.506	31.807	39.754	30
44	25.031	35.290	4.43	197.8	93.9	25.021	23.556	31.861	39.812	44
72	24.489	35.287	4.22	188.4	88.6	24.473	23.719	32.039	40.003	72
109	22.668	35.289	3.53	157.6	71.8	22.646	24.256	32.625	40.636	108
139	17.787	35.275	2.52	112.5	46.9	17.763	25.542	34.059	42.209	138

CDARWIN 25  
DATE: 7/25/87

STA: 30

TIME: 1338

LAT: 1° 34.0N

LON: 47° 17.0E

SONIC DEPTH: 4077 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
12	25.972	35.364	---	---	---	25.969	23.320	31.600	39.528	0.055	---	12
20	25.845	35.360	---	---	---	25.841	23.358	31.640	39.570	0.091	4.36	20
30	25.740	35.356	---	---	---	25.733	23.386	31.673	39.606	0.136	4.86	30
40	25.573	35.349	---	---	---	25.564	23.434	31.725	39.662	0.181	5.41	40
50	25.372	35.333	---	---	---	25.361	23.484	31.781	39.723	0.226	6.01	50
60	24.893	35.311	---	---	---	24.880	23.615	31.924	39.878	0.269	6.69	60
74	23.670	35.294	---	---	---	23.655	23.997	32.341	40.328	0.327	7.59	74
100	21.475	35.229	---	---	---	21.458	24.544	32.948	40.991	0.421	8.46	100
124	19.242	35.271	---	---	---	19.220	25.173	33.644	41.750	0.496	8.42	124
150	16.363	35.254	---	---	---	16.339	25.866	34.431	42.626	0.559	7.47	149
174	14.739	35.215	2.61	116.5	45.7	14.713	26.202	34.825	43.073	0.607	6.35	173
200	13.522	35.166	2.78	124.2	47.5	13.494	26.422	35.091	43.382	0.653	5.00	199
224	12.651	35.120	2.83	126.1	47.4	12.821	26.562	35.265	43.588	0.691	3.96	223
250	12.090	35.081	2.92	130.2	48.3	12.057	26.641	35.367	43.711	0.730	3.13	249
274	11.638	35.034	2.83	126.3	46.4	11.603	26.691	35.436	43.797	0.764	2.71	273
300	11.309	34.991	3.37	150.4	54.9	11.271	26.719	35.478	43.853	0.801	2.59	299
350	10.434	34.947	3.14	140.4	50.2	10.392	26.843	35.638	44.047	0.867	2.21	349
400	10.264	34.980	2.41	107.6	38.4	10.216	26.900	35.702	44.117	0.930	1.80	399
450	10.027	34.985	2.10	93.5	33.2	9.974	26.945	35.757	44.182	0.992	2.16	449
500	9.526	34.988	1.74	77.5	27.2	9.469	27.033	35.866	44.311	1.050	2.02	499
600	9.453	35.039	1.42	63.3	22.2	9.384	27.086	35.922	44.370	1.160	1.24	599
700	9.509	35.203	1.09	48.7	17.1	9.428	27.208	36.040	44.484	1.267	1.86	699
800	8.692	35.093	1.10	49.1	16.9	8.604	27.254	36.124	44.603	1.365	1.35	799
900	8.257	35.101	1.05	46.9	16.0	8.160	27.329	36.219	44.716	1.460	1.66	899
1000	7.492	35.066	1.03	48.4	16.2	7.389	27.416	36.341	44.872	1.548	1.77	999
1200	6.015	34.948	1.48	65.8	21.3	5.903	27.524	36.521	45.119	1.704	1.30	1198
1400	5.101	34.911	1.77	79.0	25.0	4.978	27.608	36.650	45.291	1.841	1.01	1398
1600	4.644	34.908	1.88	83.9	26.3	4.507	27.658	36.724	45.388	1.967	1.14	1598
1800	3.286	34.808	2.58	115.0	34.8	3.148	27.718	36.856	45.587	2.080	1.12	1798
2000	2.955	34.793	2.82	125.7	37.7	2.804	27.738	36.894	45.643	2.181	0.73	1998
2500	2.132	34.758	3.28	146.3	43.0	1.949	27.782	36.986	45.778	2.412	0.31	2498
3000	1.866	34.748	3.47	155.1	45.3	1.641	27.798	37.019	45.827	2.630	0.38	2997
3500	1.651	34.736	3.75	167.3	48.6	1.381	27.807	37.042	45.865	2.845	0.22	3497
4000	1.473	34.727	4.04	180.3	52.1	1.155	27.815	37.064	45.899	3.056	0.31	3997
4102	1.465	34.725	4.07	181.8	52.5	1.138	27.816	37.065	45.901	3.099	---	4099

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
29	25.751	35.347	4.74	211.6	101.8	25.744	23.377	31.663	39.596	29
248	12.099	35.079	2.87	128.1	47.5	12.066	26.638	35.363	43.707	247
700	9.497	35.205	0.98	43.8	15.4	9.416	27.211	36.044	44.488	698
999	7.508	35.074	1.08	48.2	16.2	7.405	27.420	36.344	44.874	997
1599	4.650	34.917	1.85	82.6	25.9	4.513	27.665	36.731	45.394	1597
2199	2.577	34.787	2.99	133.5	39.7	2.413	27.767	36.945	45.713	2197
2799	1.978	34.750	3.45	154.0	45.1	1.770	27.789	37.003	45.805	2797
3398	1.689	34.737	3.71	165.6	48.1	1.428	27.804	37.037	45.858	3395
4102	1.469	34.725	4.05	180.8	52.2	1.140	27.815	37.064	45.900	4099

CDARWIN 25  
DATE: 7/26/87

STA: 31

TIME: 1838

LAT: 1° 51.0N

LON: 47° 4.0E

SONIC DEPTH: 3664 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	25.953	35.368	---	---	---	25.950	23.328	31.609	39.537	0.064	---	14
20	25.842	35.352	---	---	---	25.838	23.351	31.635	39.566	0.091	3.54	20
30	25.617	35.308	---	---	---	25.610	23.389	31.679	39.616	0.136	4.04	30
40	25.485	35.285	---	---	---	25.476	23.413	31.707	39.646	0.181	4.62	40
50	24.750	35.241	---	---	---	24.739	23.604	31.917	39.876	0.225	5.27	50
60	24.398	35.248	---	---	---	24.385	23.716	32.038	40.005	0.268	5.96	60
74	24.051	35.234	---	---	---	24.035	23.810	32.142	40.118	0.326	6.56	74
100	22.625	35.192	---	---	---	22.605	24.194	32.566	40.578	0.429	8.47	100
124	19.371	35.207	---	---	---	19.349	25.091	33.558	41.661	0.510	8.97	124
150	15.656	35.212	---	---	---	15.633	25.995	34.586	42.804	0.572	8.12	149
174	15.520	35.214	2.79	124.5	49.6	15.493	26.028	34.624	42.846	0.621	6.54	173
200	13.642	35.178	2.87	128.1	49.1	13.613	26.406	35.070	43.367	0.670	4.98	199
224	12.580	35.116	3.04	135.9	51.0	12.550	26.573	35.278	43.604	0.708	4.19	223
250	12.327	35.099	3.00	134.0	50.0	12.294	26.610	35.326	43.661	0.747	3.25	249
274	11.545	35.013	3.48	155.4	57.0	11.510	26.693	35.441	43.806	0.782	2.53	273
300	11.495	35.008	3.45	153.9	56.4	11.457	26.698	35.449	43.817	0.818	2.41	299
350	10.397	34.919	3.48	155.2	55.5	10.355	26.828	35.625	44.036	0.887	2.52	349
400	10.002	34.897	3.18	142.0	50.3	9.955	26.879	35.694	44.121	0.950	1.93	399
450	9.927	34.970	2.69	119.9	42.4	9.874	26.950	35.767	44.196	1.012	2.37	449
500	9.526	35.013	1.61	72.0	25.2	9.469	27.052	35.886	44.330	1.069	2.01	499
600	9.406	35.040	1.42	63.5	22.2	9.337	27.095	35.933	44.383	1.178	1.08	599
700	9.159	35.083	1.18	52.9	18.4	9.080	27.171	36.020	44.479	1.286	1.76	699
800	8.811	35.099	1.11	49.6	17.1	8.722	27.241	36.105	44.579	1.386	1.47	799
900	8.671	35.178	0.95	42.4	14.6	8.571	27.326	36.196	44.675	1.481	1.95	899
1000	7.396	35.059	1.08	48.3	16.2	7.294	27.424	36.354	44.889	1.568	1.66	998
1200	6.200	34.967	1.40	62.5	20.3	6.087	27.515	36.503	45.093	1.724	1.48	1198
1400	5.122	34.909	1.75	78.3	24.8	4.999	27.603	36.645	45.285	1.862	1.10	1398
1600	4.330	34.865	2.10	93.9	29.2	4.197	27.658	36.741	45.419	1.987	1.08	1598
1800	3.572	34.827	2.49	111.1	33.9	3.430	27.706	36.829	45.546	2.102	1.14	1798
2000	2.960	34.794	2.73	121.8	36.5	2.809	27.738	36.895	45.643	2.205	0.93	1998
2500	2.177	34.759	3.26	145.5	42.8	1.993	27.779	36.981	45.771	2.436	0.58	2498
3000	1.863	34.748	3.44	153.7	44.8	1.638	27.798	37.019	45.828	2.655	0.22	2997
3500	1.638	34.735	3.75	167.4	48.6	1.368	27.807	37.044	45.867	2.869	0.31	3497
3698	1.584	34.731	3.84	171.3	49.6	1.295	27.809	37.050	45.877	2.953	---	3695

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	26.004	35.344	4.80	214.3	103.5	26.000	23.295	31.575	39.502	19
348	10.396	34.918	3.44	153.6	54.9	10.354	26.827	35.624	44.035	347
699	9.154	35.075	1.25	55.8	19.4	9.075	27.165	36.014	44.474	697
1098	6.675	34.998	1.19	53.1	17.5	6.568	27.477	36.441	45.008	1097
1498	4.738	34.886	1.90	84.8	26.6	4.610	27.630	36.691	45.350	1496
1998	2.959	34.793	2.79	124.6	37.4	2.808	27.737	36.894	45.642	1996
2598	2.137	34.756	3.32	148.2	43.6	1.945	27.781	36.985	45.778	2595
3198	1.766	---	---	---	---	---	---	---	---	---
3699	1.596	34.731	3.84	171.4	49.7	1.306	27.808	37.048	45.875	---



CDARWIN 25  
DATE: 7/25/87

STA: 32

TIME: 2308

LAT: 27 7.0N

LON: 46 53 0E

SONIC DEPTH: 3220 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
20	25.929	35.317	---	---	---	25.924	23.298	31.580	39.509	0.092	---	20
30	25.919	35.312	---	---	---	25.912	23.298	31.580	39.510	0.138	0.31	30
40	25.918	35.310	---	---	---	25.909	23.298	31.580	39.510	0.184	4.19	40
50	25.894	35.303	---	---	---	25.883	23.300	31.584	39.514	0.230	6.08	50
60	25.832	35.285	---	---	---	25.819	23.307	31.592	39.524	0.275	7.52	60
74	25.804	35.284	---	---	---	25.788	23.316	31.602	39.534	0.340	9.47	74
124	17.247	35.210	---	---	---	17.226	25.622	34.158	42.325	0.503	8.01	124
150	16.530	35.228	---	---	---	16.506	25.807	34.367	42.556	0.564	5.18	150
174	15.226	35.207	2.97	132.6	52.5	15.199	26.088	34.694	42.926	0.613	5.07	173
200	14.336	35.197	2.94	131.4	51.1	14.307	26.275	34.913	43.176	0.663	5.12	199
224	12.905	35.136	2.99	133.6	50.5	12.874	26.524	35.217	43.531	0.702	4.34	223
250	11.913	35.051	3.44	153.5	56.7	11.880	26.652	35.385	43.736	0.741	3.28	249
274	11.802	35.037	3.39	151.3	55.8	11.767	26.663	35.401	43.756	0.776	2.14	273
300	11.761	35.033	3.37	150.3	55.4	11.722	26.668	35.408	43.765	0.813	1.58	299
350	11.571	35.017	3.36	149.8	55.0	11.526	26.693	35.440	43.805	0.885	2.76	349
400	9.930	34.910	3.12	139.1	49.2	9.883	26.902	35.718	44.148	0.951	2.70	399
450	9.834	34.941	2.72	121.4	42.9	9.782	26.944	35.764	44.198	1.012	1.54	449
500	9.841	34.963	2.10	93.8	33.1	9.783	26.961	35.781	44.214	1.072	2.07	499
600	9.303	35.054	1.42	63.2	22.1	9.235	27.123	35.965	44.419	1.182	1.34	599
700	9.087	35.056	1.34	59.7	20.8	9.008	27.161	36.013	44.476	1.288	1.42	699
800	8.750	35.071	1.22	54.6	18.8	8.661	27.228	36.096	44.573	1.390	1.39	799
900	8.702	35.167	1.03	46.0	15.9	8.602	27.313	36.181	44.660	1.487	2.19	899
1000	7.373	35.091	1.12	49.8	16.6	7.271	27.452	36.382	44.918	1.572	1.63	999
1200	6.436	35.027	1.39	62.1	20.3	6.320	27.532	36.508	45.086	1.724	1.32	1198
1400	5.043	34.903	1.85	82.4	26.0	4.921	27.608	36.653	45.298	1.861	1.19	1398
1600	4.240	34.849	2.23	99.6	30.9	4.108	27.655	36.742	45.426	1.985	0.96	1598
1800	3.475	34.829	2.42	108.0	32.8	3.334	27.717	36.845	45.566	2.100	1.32	1798
2000	3.002	34.793	2.84	126.9	38.1	2.850	27.733	36.888	45.634	2.202	0.66	1998
2500	2.239	34.761	3.27	145.8	42.9	2.054	27.776	36.974	45.761	2.437	0.54	2498
3000	1.852	34.747	3.50	156.3	45.6	1.627	27.798	37.020	45.829	2.657	0.00	2997
3216	1.760	34.741	3.59	160.3	46.6	1.516	27.802	37.030	45.846	2.750	---	3213

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.913	35.290	4.74	211.6	102.0	25.902	23.285	31.568	39.497	49
299	11.763	35.027	3.36	150.0	55.3	11.724	26.663	35.403	43.760	298
700	9.095	35.054	1.37	61.2	21.3	9.016	27.158	36.010	44.473	698
1099	6.968	35.074	1.10	49.1	16.3	6.859	27.497	36.446	45.000	1098
1499	4.683	34.883	1.99	88.8	27.8	4.555	27.633	36.697	45.359	1497
1899	3.145	34.805	2.72	121.4	36.6	3.000	27.729	36.876	45.614	1897
2299	2.511	34.780	3.06	136.6	40.5	2.339	27.768	36.950	45.722	2297
2699	2.141	34.762	3.28	146.4	43.0	1.939	27.786	36.990	45.783	2697
3215	1.759	34.742	3.61	161.2	46.9	1.515	27.802	37.030	45.846	3212

SONIC DEPTH: 2816 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
20	25.302	36.056	---	---	---	25.293	23.295	31.596	39.542	0.092	---	20
30	25.292	36.053	---	---	---	25.285	23.296	31.597	39.544	0.138	6.58	30
40	25.269	36.048	---	---	---	25.260	23.300	31.602	39.549	0.184	7.48	40
50	25.053	34.978	---	---	---	25.042	23.313	31.622	39.575	0.230	8.21	50
60	24.728	34.970	---	---	---	24.715	23.406	31.723	39.685	0.275	8.87	60
74	23.847	35.052	---	---	---	23.831	23.732	32.072	40.055	0.336	9.74	74
100	15.806	35.207	---	---	---	15.790	25.955	34.540	42.753	0.412	9.52	100
124	15.069	35.200	---	---	---	15.050	26.116	34.727	42.964	0.459	7.30	124
150	14.627	35.190	---	---	---	14.605	26.205	34.833	43.085	0.509	4.74	150
174	14.586	35.192	2.95	131.9	51.6	14.560	26.217	34.846	43.100	0.553	3.86	174
200	13.144	35.151	3.02	134.7	51.1	13.116	26.487	35.170	43.475	0.599	3.94	199
224	12.347	35.100	3.22	143.7	53.6	12.317	26.511	35.321	43.656	0.636	3.33	223
250	12.208	35.078	3.21	143.1	53.2	12.175	26.515	35.338	43.678	0.674	2.34	249
274	12.151	35.073	3.19	142.5	53.0	12.115	26.625	35.348	43.690	0.710	1.39	273
300	12.056	35.064	3.21	143.3	53.1	12.017	26.636	35.363	43.709	0.748	1.26	299
350	11.882	35.046	3.31	147.6	54.5	11.836	26.656	35.391	43.744	0.822	2.70	349
400	10.434	34.937	3.23	144.2	51.6	10.386	26.836	35.632	44.041	0.891	3.11	399
450	9.793	34.940	2.28	101.7	35.9	9.741	26.949	35.772	44.207	0.952	2.36	449
500	9.675	35.019	1.79	79.9	28.1	9.617	27.032	35.859	44.298	1.009	1.88	499
600	9.337	35.049	1.43	63.8	22.3	9.269	27.114	35.955	44.407	1.119	1.34	599
700	9.072	35.060	1.34	60.0	20.8	8.993	27.167	36.019	44.483	1.225	1.74	699
800	8.685	35.088	1.13	50.4	17.4	8.597	27.252	36.122	44.601	1.325	1.52	799
900	8.674	35.190	0.96	42.8	14.8	8.574	27.335	36.205	44.684	1.419	1.90	899
1000	7.868	35.159	0.98	43.9	14.9	7.762	27.434	36.341	44.854	1.505	1.44	999
1200	6.044	34.989	1.42	63.5	20.6	5.932	27.553	36.547	45.144	1.658	1.36	1198
1400	4.884	34.884	1.93	86.0	27.1	4.764	27.611	36.665	45.316	1.790	0.91	1398
1600	4.232	34.847	2.19	97.9	30.3	4.100	27.654	36.742	45.426	1.914	0.96	1598
1800	3.296	34.798	2.62	117.0	35.4	3.158	27.709	36.847	45.577	2.026	1.21	1798
2000	2.993	34.792	2.83	126.3	37.9	2.841	27.733	36.888	45.635	2.128	0.88	1998
2500	2.246	34.769	3.15	140.7	41.5	2.061	27.782	36.979	45.766	2.361	0.54	2498
2850	1.986	34.752	3.33	148.4	43.5	1.773	27.791					

[illegible]

CDARWIN 25  
DATE: 7/26/87

STA: 34

TIME: 0734

LAT: 2° 30.0N

LON: 46° 35.0E

SONIC DEPTH: 2251 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
12	25.329	34.987	---	---	---	25.326	23.234	31.535	39.481	0.056	---	12
20	25.305	34.986	---	---	---	25.301	23.240	31.542	39.489	0.093	5.66	20
30	25.285	34.983	---	---	---	25.278	23.245	31.548	39.495	0.139	6.80	30
40	25.149	34.962	---	---	---	25.140	23.271	31.577	39.529	0.186	7.74	40
50	24.853	34.953	---	---	---	24.842	23.355	31.669	39.628	0.231	8.55	50
60	24.595	34.951	---	---	---	24.582	23.433	31.753	39.718	0.277	9.30	60
74	21.582	35.107	---	---	---	21.568	24.421	32.823	40.864	0.336	10.16	74
100	16.274	35.194	---	---	---	16.258	25.838	34.407	42.605	0.409	9.52	100
124	14.663	35.175	---	---	---	14.644	26.185	34.812	43.063	0.456	7.30	124
150	13.794	35.161	---	---	---	13.773	26.360	35.019	43.300	0.502	4.39	150
174	13.542	35.151	3.02	134.7	51.5	13.517	26.405	35.073	43.364	0.542	2.73	174
200	13.285	35.138	2.98	133.2	50.7	13.257	26.448	35.127	43.427	0.585	---	199

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	---	34.986	4.91	---	---	---	---	---	---	---
5	27.249	34.986	4.89	218.3	107.4	27.247	22.630	30.883	38.785	---
17	25.309	34.984	4.95	221.0	105.3	25.305	23.238	31.539	39.487	17
27	25.288	34.981	4.79	213.8	101.8	25.282	23.243	31.545	39.493	27
39	25.165	34.960	4.72	210.7	100.1	25.156	23.265	31.571	39.522	39
68	24.017	34.972	4.37	195.1	90.9	24.003	23.621	31.957	39.936	67
79	20.726	35.128	3.48	155.4	68.3	20.711	24.671	33.098	41.163	79
99	16.317	35.194	3.08	137.5	55.6	16.301	25.828	34.396	42.592	99
119	14.749	35.173	3.02	134.8	52.9	14.731	26.165	34.788	43.036	119

CDARWIN 25  
DATE: 7/26/87

STA: 35  
TIME: 0900

LAT: 2° 33.0N

LOH: 46° 40.0E

SONIC DEPTH: 1830 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
16	25.377	35.028	---	---	---	25.374	23.250	31.550	39.495	0.074	---	16
20	25.363	35.025	---	---	---	25.359	23.252	31.552	39.498	0.092	4.96	20
30	25.267	35.005	---	---	---	25.260	23.268	31.570	39.518	0.139	7.05	30
40	25.018	34.984	---	---	---	25.009	23.328	31.638	39.592	0.185	8.40	40
50	24.733	34.975	---	---	---	24.722	23.408	31.725	39.686	0.230	9.51	50
60	24.039	34.989	---	---	---	24.026	23.627	31.982	39.940	0.274	10.53	60
100	14.977	35.191	---	---	---	14.962	26.128	34.743	42.984	0.386	9.32	100
124	14.206	35.181	---	---	---	14.188	26.288	34.931	43.197	0.430	5.79	124
150	13.884	35.175	---	---	---	13.862	26.352	35.007	43.285	0.475	2.89	150
174	13.516	35.156	3.06	136.8	52.3	13.491	26.414	35.083	43.375	0.515	2.98	174
200	13.096	35.141	3.01	134.5	51.0	13.068	26.489	35.174	43.481	0.557	2.74	200
224	12.848	35.127	3.03	135.3	51.0	12.817	26.529	35.224	43.540	0.595	2.46	223
250	12.324	35.081	3.27	146.2	54.5	12.291	26.596	35.313	43.648	0.635	1.99	249
274	12.292	35.077	3.30	147.1	54.8	12.255	26.600	35.318	43.655	0.671	1.58	273
300	12.170	35.067	3.33	148.7	55.3	12.130	26.617	35.340	43.681	0.709	1.64	299
350	11.965	35.051	3.35	149.4	55.3	11.919	26.645	35.376	43.726	0.784	3.17	349
400	10.143	34.955	3.30	147.5	52.4	10.096	26.901	35.708	44.129	0.851	3.33	399
450	9.655	34.994	2.38	106.1	37.3	9.603	27.015	35.842	44.282	0.909	2.07	449
500	9.488	35.008	1.78	79.7	27.9	9.431	27.055	35.890	44.336	0.965	1.63	499
600	9.130	35.060	1.36	60.5	21.1	9.063	27.155	36.005	44.466	1.072	1.58	599
700	8.844	35.112	1.14	50.8	17.6	8.766	27.244	36.106	44.578	1.172	1.78	699
800	8.744	35.186	1.12	49.9	17.2	8.655	27.319	36.185	44.661	1.266	1.42	799
900	8.330	35.183	0.90	40.0	13.7	8.232	27.383	36.202	44.761	1.355	1.57	899
1000	7.492	35.126	1.00	44.5	14.9	7.389	27.463	36.387	44.917	1.438	1.46	999
1200	6.332	35.009	1.30	58.1	19.0	6.217	27.532	36.512	45.095	1.590	1.34	1198
1400	4.809	34.882	1.93	86.0	27.0	4.689	27.617	36.675	45.330	1.725	1.10	1398
1600	3.975	34.834	2.32	103.8	31.9	3.846	27.670	36.772	45.468	1.846	1.25	1598
1800	3.234	34.804	2.70	120.4	36.4	3.097	27.720	36.861	45.594	1.954	1.03	1798
1856	3.133	34.801	2.70	120.8	36.4	2.992	27.727	36.874	45.612	1.982	---	1854

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
100	14.978	35.178	3.10	138.4	54.5	14.963	26.118	34.733	42.973	99
298	12.169	35.059	3.35	149.6	55.6	12.130	26.611	35.334	43.675	297
498	9.495	35.004	1.87	83.5	29.3	9.438	27.050	35.885	44.331	497
749	8.536	35.091	1.11	49.6	17.0	8.454	27.276	36.153	44.638	748
898	8.347	35.176	0.89	39.7	13.6	8.250	27.375	36.259	44.751	897
1199	6.329	35.011	1.35	60.3	19.7	6.215	27.534	36.516	45.098	1197
1449	4.677	34.877	1.98	88.4	27.7	4.554	27.629	36.693	45.355	1448
1698	3.523	34.813	2.62	117.0	35.6	3.391	27.699	36.824	45.543	1696
1857	3.140	34.801	2.77	123.7	37.3	2.999	27.726	36.873	45.611	---

CDARWIN 25  
DATE: 7/26/87

STA: 36

TIME: 1256

LAT: 2° 39.0N

LON: 46° 31.0E

SONIC DEPTH: 748 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
14	25.346	34.950	---	---	---	25.343	23.201	31.502	39.448	0.065	---	14
20	25.279	34.948	---	---	---	25.275	23.220	31.523	39.471	0.093	7.82	20
30	25.212	34.950	---	---	---	25.205	23.243	31.547	39.497	0.139	9.22	30
40	25.029	34.955	---	---	---	25.020	23.303	31.612	39.567	0.186	10.42	40
50	23.670	35.038	---	---	---	23.660	23.770	32.115	40.102	0.230	11.48	50
100	14.345	35.166	---	---	---	14.330	26.246	34.883	43.146	0.355	7.36	100
124	13.674	35.146	---	---	---	13.656	26.373	35.036	43.321	0.396	2.66	124
150	13.634	35.144	---	---	---	13.613	26.380	35.044	43.332	0.440	2.10	150
174	13.441	35.129	3.41	152.3	58.2	13.417	26.409	35.081	43.375	0.480	1.95	174
200	13.289	35.124	3.41	152.4	58.0	13.261	26.437	35.115	43.415	0.523	1.90	200
224	13.114	35.122	3.33	148.7	56.4	13.083	26.471	35.156	43.463	0.562	2.00	224
250	12.990	35.113	3.29	146.7	55.5	12.955	26.490	35.181	43.492	0.604	2.10	249
274	12.752	35.098	3.37	150.3	56.5	12.715	26.527	35.226	43.548	0.642	2.08	273
300	12.342	35.069	3.34	149.3	55.7	12.302	26.585	35.301	43.637	0.682	1.89	299
350	12.235	35.067	3.32	148.0	55.1	12.188	26.605	35.326	43.665	0.758	2.82	349
400	10.401	34.998	2.69	120.2	43.0	10.353	26.889	35.685	44.096	0.832	4.03	399
450	9.465	34.981	2.00	89.4	31.3	9.414	27.037	35.873	44.320	0.889	2.67	449
500	9.380	35.019	1.79	80.0	28.0	9.323	27.080	35.920	44.370	0.944	1.49	499
600	9.204	35.052	1.54	68.8	24.0	9.136	27.138	35.985	44.442	1.050	---	599

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
24	25.256	34.944	5.11	228.1	108.6	25.251	23.224	31.528	39.477	24
99	14.354	35.166	3.27	146.0	56.8	14.339	26.244	34.882	43.143	99
149	13.636	35.145	3.12	139.3	53.4	13.615	26.380	35.045	43.332	148
250	12.989	35.115	3.29	146.9	55.5	12.955	26.492	35.182	43.493	249
349	12.237	35.066	3.31	147.8	55.0	12.191	26.604	35.325	43.664	348
449	9.462	34.984	2.02	90.2	31.6	9.411	27.039	35.875	44.323	448
499	9.382	35.019	1.76	78.6	27.5	9.325	27.080	35.920	44.370	498
598	9.204	35.051	1.56	69.6	24.3	9.137	27.136	35.983	44.441	597
657	9.133	35.069	1.39	62.1	21.6	9.059	27.163	36.013	44.474	---

CDARWIN 25  
DATE: 7/27/87

STA: 37

TIME: 0429

LAT: 2° 1' 0N

LON: 46° 0' 0E

SONIC DEPTH: 723 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	25.450	35.022	---	---	---	25.449	23.222	31.520	39.463	0.019	---	4
10	25.390	35.024	---	---	---	25.388	23.243	31.542	39.487	0.047	1.49	10
20	25.352	35.003	---	---	---	25.348	23.239	31.539	39.485	0.093	1.88	20
30	25.287	34.992	---	---	---	25.280	23.251	31.553	39.501	0.139	2.95	30
40	25.221	34.970	---	---	---	25.212	23.255	31.559	39.509	0.186	4.52	40
50	25.133	34.959	---	---	---	25.122	23.275	31.581	39.533	0.232	5.97	50
60	24.996	34.953	---	---	---	24.983	23.313	31.623	39.578	0.278	7.16	60
74	24.893	34.955	---	---	---	24.877	23.347	31.660	39.617	0.342	8.63	74
100	22.800	35.115	---	---	---	22.780	24.086	32.453	40.462	0.456	10.42	100
124	15.391	35.192	---	---	---	15.372	26.028	34.638	42.865	0.522	9.58	123
150	14.604	35.185	---	---	---	14.582	26.207	34.835	43.088	0.572	7.16	149
174	13.962	35.171	3.10	138.4	53.4	13.937	26.333	34.985	43.261	0.615	4.61	173
200	13.262	35.135	3.30	147.5	56.1	13.234	26.451	35.130	43.431	0.659	2.67	199
214	13.203	35.135	3.27	146.1	55.5	13.173	26.463	35.145	43.448	0.681	---	213

LON: 46° 19.0E

TIME: 0950

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	25.712	35.114	---	---	---	25.711	23.211	31.501	39.437	0.019	---	4
10	25.683	35.108	---	---	---	25.681	23.216	31.507	39.444	0.047	1.72	10
20	25.463	35.043	---	---	---	25.459	23.236	31.533	39.476	0.093	2.17	20
30	25.304	35.001	---	---	---	25.297	23.253	31.556	39.502	0.140	3.31	30
40	25.219	34.984	---	---	---	25.210	23.267	31.571	39.520	0.186	4.71	40
50	25.114	34.964	---	---	---	25.103	23.284	31.591	39.544	0.232	6.17	50
60	24.962	34.949	---	---	---	24.949	23.320	31.631	39.587	0.278	7.37	60
74	24.860	34.950	---	---	---	24.844	23.352	31.666	39.625	0.342	8.92	74
100	21.648	35.147	---	---	---	21.628	24.434	32.834	40.874	0.453	10.51	100
124	15.420	35.179	---	---	---	15.401	26.022	34.621	42.847	0.517	9.39	124
150	14.639	35.180	---	---	---	14.617	26.195	34.823	43.075	0.567	6.66	149
174	13.846	35.160	3.24	144.6	55.7	13.821	26.349	35.005	43.285	0.610	4.48	173
200	13.359	35.132	3.34	148.9	56.8	13.331	26.429	35.104	43.402	0.654	---	199

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
2	25.720	35.115	5.09	227.2	109.1	25.720	23.209	31.499	39.435	---
6	25.710	35.063	5.06	225.9	108.4	25.709	23.173	31.464	39.400	6
16	25.549	35.010	5.06	225.9	108.1	25.545	23.184	31.479	39.420	16
25	25.350	34.977	5.00	223.2	106.4	25.344	23.221	31.521	39.467	25
38	25.219	34.945	4.89	218.3	103.8	25.211	23.237	31.542	39.492	38
66	24.920	34.966	4.74	211.6	100.1	24.906	23.346	31.658	39.615	66
89	24.343	---	3.74	---	---	---	---	---	---	---
100	21.698	35.152	3.54	158.0	70.7	21.678	24.424	32.823	40.651	99
108	19.797	---	---	---	---	---	---	--	---	---

CDARWIN 25  
DATE: 7/27/87

STA: 39

LAT: 2° 24' 0N  
TIME: 1341

LON 46° 23' 0E

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cpH	m
10	25.714	35.115	---	---	---	25.712	23.211	31.501	39.437	0.047	---	10
20	25.506	35.064	---	---	---	25.502	23.238	31.534	39.475	0.093	4.94	20
30	25.291	34.999	---	---	---	25.284	23.256	31.558	39.505	0.140	6.43	30
40	25.254	34.992	---	---	---	25.245	23.262	31.565	39.514	0.186	7.48	40
50	25.234	34.989	---	---	---	25.223	23.267	31.570	39.519	0.232	8.36	50
60	24.964	34.960	---	---	---	24.951	23.328	31.639	39.595	0.278	9.18	60
74	24.537	34.977	---	---	---	24.521	23.470	31.792	39.759	0.342	10.33	74
100	15.490	35.202	---	---	---	15.474	26.023	34.619	42.842	0.421	9.81	100
124	14.788	35.195	---	---	---	14.769	26.174	34.795	43.042	0.468	7.52	124
150	14.462	35.188	---	---	---	14.440	26.239	34.873	43.131	0.515	4.40	150
174	13.602	35.160	3.36	149.8	57.4	13.577	26.400	35.066	43.354	0.558	2.86	173
200	13.173	35.136	---	---	---	13.145	26.470	35.152	43.456	0.600	---	199



CDARWIN 25  
DATE: 7/27/87

STA: 40

TIME: 1649

LAT: 2° 34.0N

LON: 46° 37' 0E

PR dbar	T C	S FSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
100	16.116	35.181	---	---	---	16.100	25.865	34.439	42.642	0.214	---	100
124	14.692	35.178	---	---	---	14.674	26.182	34.807	43.057	0.261	3.02	124
150	14.285	35.175	---	---	---	14.263	26.267	34.908	43.172	0.308	2.77	150
174	13.521	35.140	3.19	142.4	54.5	13.496	26.401	35.070	43.362	0.349	2.83	174
200	13.086	35.119	3.28	146.4	55.5	13.058	26.474	35.160	43.467	0.392	---	200

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	---	35.119	4.92	---	---	---	---	---	---	---
19	---	35.109	4.94	---	---	---	---	---	---	---
39	---	34.987	4.95	---	---	---	---	---	---	---
59	---	34.961	4.92	---	---	---	---	---	---	---
79	---	34.962	4.65	---	---	---	---	---	---	---
85	---	35.130	3.66	---	---	---	---	---	---	---
99	15.969	35.183	3.14	140.2	56.3	15.953	25.900	34.480	42.687	---
119	14.736	35.179	3.02	134.8	52.9	14.718	26.172	34.796	43.045	119
139	14.441	35.177	2.86	127.7	49.8	14.420	26.235	34.869	43.129	139

CDARWIN 25  
DATE: 7/28/87

STA: 41

TIME: 0859

LAT: 3° 19.0N

LCN: 47° 21.0E

SONIC DEPTH: 1141 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.644	35.060	---	---	---	25.644	23.191	31.483	39.421	0.009	---	2
10	25.637	35.055	---	---	---	25.635	23.221	31.516	39.457	0.046	1.16	10
20	25.476	35.066	---	---	---	25.472	23.249	31.545	39.488	0.093	1.28	20
30	25.422	35.055	---	---	---	25.415	23.258	31.556	39.500	0.139	1.28	30
40	25.405	35.052	---	---	---	25.396	23.261	31.560	39.504	0.185	1.24	40
50	25.416	35.060	---	---	---	25.405	23.265	31.563	39.507	0.231	1.28	50
60	25.418	35.063	---	---	---	25.405	23.267	31.566	39.509	0.278	1.28	60
74	25.313	35.029	---	---	---	25.297	23.274	31.576	39.523	0.342	5.34	74
150	15.110	35.185	---	---	---	15.087	26.096	34.706	42.943	0.601	6.87	149
174	14.698	35.183	2.88	128.5	50.4	14.672	26.186	34.811	43.061	0.647	2.82	173
200	13.951	35.157	2.94	131.3	50.6	13.922	26.326	34.979	43.255	0.694	3.06	199
224	13.710	35.147	3.00	134.0	51.5	13.678	26.369	35.032	43.316	0.735	3.06	223
250	13.281	35.139	2.87	128.3	48.8	13.246	26.451	35.130	43.430	0.779	2.75	249
274	12.857	35.109	3.16	141.2	53.3	12.819	26.514	35.209	43.525	0.818	2.45	273
300	12.692	35.097	3.15	140.5	52.8	12.651	26.539	35.241	43.563	0.859	2.81	299
350	12.032	35.061	3.11	138.8	51.4	11.986	26.640	35.369	43.716	0.936	4.09	349
400	9.573	34.970	2.35	104.9	36.8	9.527	27.009	35.840	44.283	0.998	3.15	399
450	9.474	34.989	2.05	91.4	32.0	9.423	27.041	35.876	44.324	1.054	1.74	449
500	9.359	35.042	1.55	69.1	24.1	9.302	27.102	35.942	44.393	1.109	1.74	499
600	9.073	35.058	1.21	53.9	18.7	9.006	27.163	36.016	44.479	1.212	1.67	599
700	8.808	35.104	1.04	46.5	16.1	8.731	27.243	36.107	44.581	1.310	1.05	699
758	8.640	35.107	0.94	42.1	14.5	8.557	27.273	36.144	44.625	1.365	---	757

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
10	25.534	35.055	4.89	218.3	104.4	25.532	23.222	31.517	39.458	10
19	25.474	35.053	4.90	218.8	104.5	25.470	23.239	31.536	39.479	19
32	25.423	35.060	4.90	218.8	104.5	25.416	23.261	31.559	39.503	32
42	25.403	35.048	4.82	215.2	102.7	25.394	23.269	31.568	39.502	42
72	25.341	35.028	4.89	218.3	104.1	25.325	23.265	31.566	39.512	71
148	15.110	35.183	3.00	133.9	52.9	15.087	26.095	34.706	42.941	148
298	12.717	35.096	3.32	148.2	55.7	12.677	26.532	35.234	43.555	297
399	9.570	34.965	2.27	101.3	35.6	9.524	27.005	35.837	44.280	398
750	8.677	35.110	1.06	47.3	16.3	8.595	27.269	36.139	44.618	748

CDARWIN 26  
DATE: 7/28/87

STA: 42

TIME: 1627

LAT: 3° 52.0N

LON: 48° 43.0E

SONIC DEPTH: 2290 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.028	35.317	---	---	---	26.028	23.266	31.546	39.472	0.009	---	2
10	26.027	35.318	---	---	---	26.025	23.267	31.547	39.474	0.046	3.02	10
20	25.958	35.319	---	---	---	25.954	23.290	31.572	39.500	0.092	3.87	20
30	25.713	35.322	---	---	---	25.706	23.370	31.657	39.591	0.137	4.55	30
40	25.557	35.319	---	---	---	25.548	23.416	31.708	39.646	0.182	5.25	40
50	25.413	35.309	---	---	---	25.402	23.454	31.749	39.691	0.227	6.21	50
60	25.276	35.299	---	---	---	25.263	23.489	31.788	39.733	0.271	7.22	60
74	24.902	35.282	---	---	---	24.886	23.591	31.900	39.854	0.333	8.56	74
100	21.457	35.211	---	---	---	21.438	24.536	32.941	40.985	0.431	9.45	100
124	16.246	35.186	---	---	---	16.226	25.840	34.410	42.608	0.501	9.08	124
150	15.186	35.201	---	---	---	15.163	26.092	34.699	42.933	0.554	7.14	149
174	13.409	35.153	2.66	119.6	45.2	13.385	26.434	35.108	43.403	0.598	5.32	173
200	13.215	35.143	2.82	125.9	47.9	13.187	26.467	35.148	43.450	0.640	3.22	199
224	13.205	35.142	2.74	122.4	46.6	13.174	26.469	35.150	43.453	0.678	2.40	223
250	12.904	35.125	2.77	123.4	46.6	12.870	26.517	35.210	43.524	0.720	2.06	249
274	12.773	35.119	2.72	121.3	45.7	12.736	26.538	35.237	43.556	0.758	2.53	273
300	12.512	35.110	2.68	119.6	44.7	12.472	26.584	35.293	43.621	0.798	3.15	299
350	10.602	34.964	3.34	148.9	53.6	10.560	26.827	35.615	44.017	0.870	3.52	349
400	9.899	34.979	2.50	111.7	39.6	9.852	26.961	35.778	44.208	0.930	2.41	399
450	9.918	35.044	1.88	84.0	29.7	9.865	27.010	35.826	44.254	0.988	1.74	449
500	9.545	35.020	1.79	79.8	28.0	9.488	27.054	35.886	44.330	1.045	1.80	499
600	9.142	35.048	1.33	59.3	20.6	9.075	27.144	35.994	44.454	1.152	1.39	599
700	8.889	35.061	1.21	53.9	18.7	8.811	27.196	36.057	44.528	1.254	1.32	699
800	8.742	35.133	0.99	44.1	15.2	8.653	27.278	36.145	44.621	1.352	1.74	799
900	8.119	35.103	0.96	43.1	14.7	8.023	27.351	36.247	44.750	1.444	1.54	899
1000	7.458	35.058	1.08	48.3	16.2	7.355	27.415	36.341	44.874	1.530	1.39	998
1198	6.459	35.012	1.26	56.4	18.4	6.344	27.518	36.492	45.070	1.686	---	1196

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	25.429	35.316	4.61	205.8	98.4	25.418	23.454	31.749	39.690	48
149	15.195	35.203	2.65	118.3	46.8	15.172	26.091	34.698	42.931	149
198	13.215	35.144	2.80	125.0	47.5	13.187	26.467	35.148	43.450	198
249	12.924	35.126	2.88	128.6	48.6	12.890	26.513	35.206	43.519	248
324	11.930	35.043	3.30	147.3	54.5	11.888	26.645	35.377	43.728	323
650	9.048	35.056	1.26	56.3	19.5	8.975	27.166	36.020	44.485	649
869	8.495	35.162	0.89	39.7	13.6	8.400	27.340	36.218	44.705	868
1000	7.459	35.058	1.06	47.3	15.9	7.356	27.414	36.341	44.873	998
1199	6.479	35.015	1.24	55.4	18.1	6.363	27.517	36.491	45.068	---

CDARWIN 25  
DATE: 7/28/87

STA: 43

LAT. 4 33.0N  
TIME: 2046

LON 48 12.0E

SONIC DEPTH: 1832 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.500	35.145	---	---	---	25.500	23.300	31.595	39.536	0.009	---	2
10	25.497	35.146	---	---	---	25.495	23.302	31.597	39.537	0.046	4.06	10
20	25.244	35.137	---	---	---	25.240	23.373	31.675	39.622	0.091	3.89	20
30	24.886	35.122	---	---	---	24.879	23.472	31.783	39.739	0.136	5.10	30
40	24.760	35.156	---	---	---	24.751	23.537	31.851	39.809	0.180	6.59	40
50	24.587	35.200	---	---	---	24.576	23.623	31.941	39.903	0.223	7.79	50
60	24.371	35.252	---	---	---	24.358	23.727	32.050	40.018	0.265	8.90	60
74	22.726	35.225	---	---	---	22.711	24.189	32.557	40.567	0.320	10.18	74
100	16.054	35.188	---	---	---	16.038	25.884	34.461	42.666	0.404	10.31	100
124	14.041	35.163	---	---	---	14.023	26.309	34.958	43.231	0.450	7.50	124
150	13.828	35.153	---	---	---	13.807	26.347	35.004	43.284	0.494	4.47	150
174	13.182	35.123	3.04	135.8	51.6	13.158	26.457	35.139	43.443	0.534	3.34	173
200	12.478	35.083	3.12	139.5	52.2	12.451	26.567	35.277	43.607	0.576	3.05	199
224	12.368	35.075	3.09	138.1	51.6	12.338	26.583	35.298	43.631	0.612	3.01	223
250	11.939	35.050	3.06	136.5	50.5	11.906	26.646	35.378	43.728	0.650	3.17	249
274	11.483	35.035	3.09	137.9	50.5	11.448	26.721	35.471	43.839	0.684	3.21	273
300	10.426	34.976	3.10	138.3	49.5	10.390	26.866	35.661	44.070	0.718	3.06	299
350	9.917	34.956	2.95	131.5	46.5	9.876	26.939	35.756	44.185	0.779	1.94	349
400	11.213	35.264	1.81	80.8	29.5	11.163	26.952	35.711	44.086	0.838	1.24	399
450	10.310	35.116	1.57	70.3	25.1	10.256	26.999	35.797	44.209	0.897	1.55	449
500	10.193	35.127	1.48	66.1	23.5	10.133	27.029	35.832	44.249	0.955	1.37	499
600	10.450	35.285	0.91	40.7	14.6	10.377	27.109	35.900	44.305	1.067	1.67	599
700	9.791	35.285	0.83	37.3	13.2	9.708	27.225	36.044	44.475	1.172	2.11	699
800	9.305	35.284	0.77	34.4	12.0	9.213	27.306	36.147	44.598	1.268	1.54	799
900	8.928	35.288	0.69	30.9	10.7	8.826	27.372	36.229	44.697	1.360	1.66	899
1000	7.773	35.175	0.90	40.4	13.6	7.668	27.461	36.372	44.889	1.444	1.76	999
1196	6.209	35.036	1.26	55.8	18.2	6.096	27.569	36.555	45.143	1.589	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
24	25.115	35.108	4.73	211.2	100.3	25.110	23.391	31.697	39.647	24
199	12.488	35.081	3.14	140.2	52.5	12.461	26.563	35.273	43.602	198
300	10.429	34.957	3.01	134.4	48.1	10.393	26.851	35.646	44.055	299
420	11.113	35.273	1.19	53.1	19.3	11.060	26.978	35.741	44.120	419
498	10.193	35.129	1.50	67.0	23.9	10.134	27.030	35.833	44.250	497
599	10.467	35.303	0.93	41.5	14.9	10.394	27.121	35.910	44.315	598
749	9.535	35.304	0.77	34.4	12.1	9.448	27.283	36.113	44.555	747
899	8.937	35.311	0.73	32.6	11.3	8.835	27.389	36.245	44.711	898
1199	6.197	35.035	1.26	56.3	18.3	6.083	27.570	36.557	45.145	---

CDARWIN 26  
DATE: 7/29/87

STA: 44

TIME: 0201

LAT: 5° 26' 0N

LONG: 49° 17' 0E

SONIC DEPTH: 2485 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.417	35.038	---	---	---	25.417	23.244	31.542	39.486	0.009	---	2
10	25.344	35.047	---	---	---	25.342	23.274	31.574	39.520	0.046	5.61	10
20	25.014	35.089	---	---	---	25.010	23.407	31.715	39.668	0.091	6.51	20
30	24.639	35.126	---	---	---	24.633	23.550	31.867	39.829	0.136	7.38	30
40	24.216	35.195	---	---	---	24.208	23.729	32.057	40.029	0.179	8.07	40
50	22.703	35.168	---	---	---	22.693	24.161	32.520	40.531	0.218	8.55	50
60	21.777	35.126	---	---	---	21.765	24.381	32.777	40.813	0.255	8.96	60
74	20.703	35.099	---	---	---	20.689	24.655	33.083	41.149	0.303	9.61	74
100	15.177	35.223	---	---	---	15.162	26.109	34.716	42.950	0.372	8.81	100
124	13.977	35.266	---	---	---	13.959	26.402	35.052	43.326	0.414	6.91	124
150	13.313	35.219	---	---	---	13.292	26.504	35.180	43.477	0.456	4.87	150
174	13.112	35.264	---	---	---	13.088	26.581	35.264	43.568	0.493	3.53	174
200	12.418	35.223	0.70	31.2	11.7	12.391	26.687	35.398	43.728	0.530	3.13	199
224	11.908	35.190	1.37	60.9	22.5	11.879	26.761	35.492	43.841	0.563	2.83	223
250	11.817	35.227	1.49	66.6	24.6	11.785	26.807	35.541	43.893	0.597	2.40	249
274	11.636	35.214	1.56	69.5	25.6	11.601	26.832	35.574	43.933	0.628	2.14	273
300	11.297	35.178	2.00	89.2	32.6	11.259	26.867	35.623	43.996	0.661	1.99	299
350	10.716	35.103	2.73	121.9	43.9	10.673	26.915	35.696	44.092	0.722	1.63	349
400	10.488	35.095	2.66	118.6	42.5	10.440	26.950	35.741	44.146	0.782	1.54	399
450	10.305	35.113	2.49	111.1	39.7	10.251	26.997	35.796	44.208	0.841	1.55	449
500	10.337	35.156	1.91	85.3	30.5	10.277	27.027	35.823	44.234	0.898	1.63	499
600	10.444	35.312	0.49	21.8	7.8	10.371	27.132	35.922	44.327	1.009	1.69	599
700	9.870	35.282	0.58	25.8	9.1	9.787	27.209	36.025	44.454	1.112	1.76	699
800	9.174	35.272	0.89	39.9	13.9	9.083	27.318	36.165	44.621	1.209	1.41	799
900	8.510	35.203	1.00	44.7	15.4	8.411	27.371	36.248	44.733	1.300	1.72	899
1000	7.993	35.196	0.82	36.7	12.5	7.886	27.445	36.346	44.853	1.385	1.87	999
1196	6.498	35.065	1.38	61.8	20.2	6.382	27.555	36.527	45.102	1.532	---	1194

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
10	25.360	35.058	4.77	212.9	101.6	25.358	23.278	31.577	39.522	10
150	13.321	35.213	1.71	76.3	29.1	13.300	26.498	35.173	43.471	149
298	11.354	35.176	1.63	72.8	26.6	11.316	26.855	35.609	43.979	297
399	10.495	35.092	2.99	133.5	47.9	10.447	26.947	35.737	44.143	398
499	10.350	35.148	1.36	60.7	21.7	10.290	27.018	35.814	44.225	498
599	10.439	35.316	0.82	36.6	13.1	10.366	27.135	35.926	44.331	598
749	9.588	35.283	0.73	32.6	11.5	9.501	27.258	36.086	44.526	748
899	8.526	35.204	0.77	34.4	11.8	8.427	27.369	36.245	44.730	898
1196	6.596	35.064	1.07	47.8	15.7	6.479	27.541	36.508	45.079	---

CDARWIN 25  
DATE: 7/29/87

STA: 45

LAT: 6° 17.0N  
TIME: 0654

LON: 49° 45.0E

SONIC DEPTH: 2270 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	22.086	35.069	---	---	---	22.086	24.248	32.636	40.664	0.007	---	2
10	21.797	35.075	---	---	---	21.795	24.334	32.729	40.765	0.036	4.54	10
20	21.386	35.098	---	---	---	21.382	24.466	32.873	40.920	0.071	5.18	20
30	20.966	35.123	---	---	---	20.960	24.600	33.019	41.077	0.105	5.82	30
40	20.476	35.151	---	---	---	20.469	24.753	33.187	41.259	0.138	6.28	40
50	19.810	35.195	---	---	---	19.801	24.964	33.418	41.507	0.169	6.64	50
60	19.402	35.216	---	---	---	19.391	25.087	33.553	41.654	0.198	7.00	60
74	18.969	35.225	---	---	---	18.956	25.205	33.685	41.799	0.238	7.61	74
100	15.254	35.367	---	---	---	15.239	26.203	34.806	43.035	0.300	7.18	100
124	14.466	35.332	---	---	---	14.448	26.349	34.980	43.236	0.342	5.91	124
150	13.450	35.227	---	---	---	13.429	26.482	35.153	43.446	0.384	4.49	150
174	13.408	35.316	1.62	72.1	27.6	13.384	26.560	35.231	43.525	0.422	3.56	174
200	12.398	35.224	1.98	88.6	33.1	12.371	26.692	35.403	43.734	0.460	3.22	200
224	12.168	35.249	1.93	86.4	32.1	12.138	26.757	35.477	43.816	0.493	2.78	224
250	11.535	35.142	2.04	90.9	33.4	11.503	26.794	35.541	43.905	0.527	2.25	249
274	11.391	35.133	2.83	126.3	46.2	11.356	26.814	35.567	43.937	0.558	1.91	273
300	11.440	35.182	2.17	96.7	35.4	11.402	26.844	35.594	43.961	0.592	1.85	299
350	11.207	35.210	1.42	63.6	23.2	11.163	26.910	35.669	44.046	0.654	2.02	349
400	10.918	35.224	1.48	65.8	23.8	10.868	26.975	35.746	44.133	0.714	1.96	399
450	10.847	35.284	0.76	33.8	12.2	10.791	27.035	35.808	44.198	0.772	1.77	449
500	10.312	35.209	1.25	55.8	20.0	10.252	27.072	35.869	44.281	0.827	1.47	499
600	10.451	35.318	0.45	20.1	7.2	10.378	27.135	35.925	44.330	0.936	1.61	599
700	9.609	35.273	0.57	25.3	8.9	9.527	27.246	36.072	44.511	1.038	1.81	699
800	8.923	35.216	0.72	32.0	11.1	8.833	27.315	36.173	44.641	1.132	1.34	799
900	8.633	35.222	0.53	23.8	8.2	8.533	27.366	36.237	44.718	1.222	1.41	899
1000	7.964	35.185	0.72	32.1	10.9	7.858	27.441	36.343	44.852	1.308	1.72	999
1200	6.666	35.091	1.23	54.9	18.0	6.548	27.553	36.516	45.083	1.462	---	1199

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	19.879	35.188	3.84	171.4	74.3	19.870	24.941	33.392	41.480	48
109	15.044	35.362	1.34	59.8	23.6	15.027	26.246	34.856	43.092	109
149	13.450	35.187	2.10	93.8	35.8	13.429	26.451	35.122	43.416	149
249	11.542	35.143	1.95	87.1	31.9	11.510	26.793	35.540	43.904	248
399	10.916	35.222	1.20	53.6	19.4	10.866	26.973	35.745	44.132	398
499	10.313	35.209	1.09	48.7	17.4	10.253	27.072	35.869	44.280	498
799	8.923	35.217	0.81	36.2	12.5	8.833	27.315	36.173	44.641	798
949	8.308	35.191	0.78	34.8	11.9	8.205	27.393	36.279	44.773	948
1199	6.692	35.095	1.02	45.5	15.0	6.574	27.552	36.515	45.081	1198

CDARWIN 25  
DATE: 7/29/87

STA: 46

TIME: 0841

LAT: 6° 26.0N

LONG: 49° 48.0E

SONIC DEPTH: 1462 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
4	21.461	35.119	---	---	---	21.460	24.460	32.866	40.909	0.014	---	4
10	21.119	35.128	---	---	---	21.117	24.560	32.975	41.029	0.034	4.40	10
20	20.428	35.159	---	---	---	20.424	24.772	33.207	41.279	0.067	5.05	20
30	19.795	35.187	---	---	---	19.789	24.961	33.415	41.506	0.098	5.47	30
40	19.414	35.198	---	---	---	19.407	25.069	33.535	41.636	0.128	5.83	40
50	19.185	35.205	---	---	---	19.176	25.134	33.607	41.715	0.156	6.14	50
60	19.027	35.213	---	---	---	19.016	25.181	33.659	41.771	0.185	6.52	60
74	17.950	35.273	---	---	---	17.937	25.498	34.010	42.154	0.222	7.03	74
100	15.392	35.357	---	---	---	15.377	26.164	34.762	42.986	0.278	6.46	100
124	14.124	35.245	---	---	---	14.106	26.355	35.000	43.269	0.320	5.35	124
150	13.831	35.271	---	---	---	13.809	26.437	35.093	43.371	0.363	3.71	150
174	13.332	35.257	1.62	72.4	27.6	13.308	26.530	35.205	43.501	0.401	2.90	174
200	12.527	35.246	1.43	63.9	23.9	12.500	26.684	35.389	43.715	0.439	---	200

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
2	21.483	35.119	4.37	195.1	87.0	21.483	24.454	32.858	40.902	---
8	21.246	35.124	4.46	199.1	88.4	21.244	24.523	32.934	40.984	8
15	20.734	35.143	4.23	188.8	83.1	20.731	24.677	33.103	41.167	15
20	20.420	35.160	4.17	186.2	81.4	20.416	24.774	33.210	41.283	20
33	19.767	35.188	4.12	183.9	79.5	19.761	24.969	33.424	41.515	32
56	19.109	35.207	3.91	174.6	74.5	19.099	25.155	33.631	41.741	56
79	17.573	35.281	2.47	110.3	45.8	17.560	25.596	34.120	42.276	79
99	15.427	35.355	1.43	63.8	25.4	15.412	26.155	34.751	42.975	99
119	14.178	35.259	1.89	84.4	32.7	14.161	26.354	34.997	43.264	119

CDARWIN 25  
DATE: 7/29/87

STA: 47  
TIME: 1447

LAT: 7° 10.0N

LOD: 50° 5.0E

SONIC DEPTH: 1159 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	21.457	35.288	---	---	---	21.457	24.589	32.992	41.035	0.007	---	2
10	21.423	35.292	---	---	---	21.421	24.602	33.006	41.049	0.034	5.68	10
20	20.855	35.350	---	---	---	20.851	24.802	33.222	41.281	0.066	6.18	20
30	20.033	35.399	---	---	---	20.028	25.060	33.504	41.585	0.096	6.37	30
40	19.713	35.384	---	---	---	19.706	25.134	33.588	41.678	0.125	6.56	40
50	19.013	35.356	---	---	---	19.004	25.293	33.770	41.881	0.153	6.77	50
60	16.962	35.319	---	---	---	16.952	25.772	34.315	42.489	0.178	6.95	60
74	15.082	35.200	---	---	---	15.071	26.111	34.722	42.959	0.206	6.88	74
100	14.274	35.259	---	---	---	14.259	26.333	34.972	43.235	0.253	5.60	100
124	14.376	35.379	---	---	---	14.358	26.405	35.039	43.298	0.293	4.51	124
150	13.064	35.272	---	---	---	13.043	26.596	35.280	43.586	0.333	3.67	150
174	12.338	35.180	1.98	88.5	33.0	12.315	26.669	35.383	43.716	0.368	3.26	174
200	11.937	35.158	1.98	88.2	32.6	11.911	26.729	35.459	43.808	0.404	2.83	200
224	11.797	35.206	1.66	74.2	27.4	11.768	26.794	35.529	43.882	0.436	2.61	224
250	11.721	35.250	1.42	63.2	23.3	11.689	26.843	35.581	43.937	0.469	2.32	250
274	11.572	35.256	1.23	55.1	20.2	11.537	26.876	35.620	43.981	0.499	2.05	274
300	11.550	35.290	1.17	52.1	19.1	11.512	26.908	35.652	44.014	0.531	1.76	299
350	11.378	35.301	1.14	50.7	18.6	11.333	26.949	35.701	44.069	0.591	1.67	349
400	10.944	35.247	1.02	45.5	16.5	10.894	26.988	35.758	44.144	0.650	1.89	399
450	10.856	35.318	0.93	41.6	15.1	10.800	27.060	35.833	44.221	0.706	1.55	449
500	10.900	35.349	0.84	37.6	13.6	10.838	27.077	35.848	44.235	0.761	1.12	499
600	10.742	35.396	0.72	32.0	11.5	10.667	27.145	35.922	44.314	0.870	1.81	599
700	9.470	35.243	0.83	36.9	13.0	9.389	27.245	36.079	44.524	0.971	1.78	699
800	8.907	35.231	0.77	34.3	11.9	8.817	27.329	36.187	44.656	1.064	1.42	799
900	8.566	35.234	0.73	32.5	11.2	8.467	27.386	36.260	44.743	1.153	1.70	899
1000	7.655	35.174	0.81	36.4	12.3	7.551	27.477	36.393	44.915	1.235	1.28	999
1050	7.505	35.153	0.82	36.8	12.3	7.397	27.483	36.407	44.936	1.275	---	1049

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
10	21.419	35.295	4.67	208.5	92.9	21.417	24.606	33.010	41.053	10
119	14.345	35.356	1.31	58.5	22.8	14.327	26.393	35.029	43.289	119
179	12.342	35.196	1.83	81.7	30.5	12.318	26.681	35.394	43.727	178
299	11.551	35.291	1.18	52.7	19.3	11.513	26.908	35.652	44.014	299
450	10.865	35.320	0.93	41.5	15.0	10.809	27.060	35.832	44.220	449
589	10.838	35.411	0.69	30.8	11.2	10.764	27.139	35.912	44.300	588
698	9.470	35.244	0.80	35.7	12.5	9.389	27.246	36.079	44.524	697
898	8.580	35.234	0.73	32.6	11.2	8.481	27.384	36.257	44.740	897
1049	7.518	35.153	0.86	38.4	12.9	7.410	27.482	36.404	44.933	1047



CDARWIN 26  
DATE: 7/29/87

STA: 48

TIME: 2110

LAT: 8° 12.0N

LON: 60° 21.0E

SONIC DEPTH: 609 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	19.625	35.233	---	---	---	19.625	25.065	33.627	41.624	0.006	---	2
10	19.505	35.232	---	---	---	19.503	25.070	33.633	41.631	0.029	4.44	10
20	19.296	35.223	---	---	---	19.292	25.118	33.687	41.691	0.058	4.92	20
30	19.099	35.174	---	---	---	18.094	25.383	33.891	42.031	0.085	5.22	30
40	17.145	35.228	---	---	---	17.138	25.657	34.198	42.365	0.109	5.33	40
50	16.974	35.263	---	---	---	16.968	25.725	34.269	42.443	0.133	5.45	50
60	16.447	35.217	---	---	---	16.437	25.815	34.377	42.569	0.155	5.65	60
74	16.420	35.374	---	---	---	16.408	25.942	34.503	42.694	0.185	5.96	74
100	15.024	35.367	---	---	---	15.009	26.254	34.864	43.101	0.235	5.48	100
124	13.509	35.280	---	---	---	13.491	26.510	35.178	43.467	0.274	4.78	124
150	12.838	35.289	---	---	---	12.818	26.639	35.332	43.646	0.313	3.93	150
174	12.255	35.232	1.77	79.0	29.4	12.232	26.725	35.442	43.778	0.346	3.20	174
200	11.907	35.208	1.76	78.7	29.1	11.881	26.774	35.505	43.854	0.381	2.67	200
224	11.538	35.180	1.76	78.5	28.8	11.509	26.822	35.568	43.931	0.412	2.43	224
250	11.204	35.159	1.72	76.8	28.0	11.173	26.866	35.628	44.004	0.445	2.27	250
274	11.062	35.157	1.65	73.5	26.7	11.028	26.893	35.659	44.041	0.475	2.13	274
300	10.754	35.154	1.56	69.6	25.1	10.717	26.947	35.725	44.119	0.506	1.94	300
350	10.677	35.169	1.47	65.4	23.6	10.634	26.973	35.755	44.152	0.564	1.64	349
400	10.634	35.225	1.28	56.1	20.2	10.585	27.026	35.809	44.207	0.621	1.63	399
450	10.644	35.279	1.06	47.3	17.0	10.589	27.067	35.849	44.246	0.676	1.63	449
500	10.664	35.339	0.88	39.5	14.2	10.602	27.112	35.892	44.288	0.730	1.86	499
584	10.293	35.358	0.77	34.3	12.3	10.222	27.194	35.990	44.400	0.817	---	583

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
5	19.622	35.233	4.25	189.7	81.7	19.621	25.066	33.628	41.625	4
29	18.227	35.177	3.17	141.6	59.4	18.222	25.354	33.857	41.994	29
54	16.711	35.216	2.71	121.0	49.3	16.702	25.752	34.305	42.488	54
89	15.704	35.422	1.09	48.7	19.5	15.690	26.144	34.730	42.943	89
200	11.921	35.208	1.73	77.2	28.6	11.895	26.771	35.501	43.850	199
299	10.765	35.153	1.55	69.2	25.0	10.728	26.944	35.722	44.116	299
400	10.634	35.224	1.26	56.3	20.2	10.585	27.025	35.808	44.206	399
500	10.662	35.337	0.90	40.2	14.5	10.601	27.111	35.891	44.287	499
585	10.426	35.356	0.77	34.4	12.3	10.355	27.189	35.959	44.365	---

CDARWIN 25  
DATE: 7/29/87

STA: 49

TIME: 2359

LAT: 8° 2.0N

LON: 50° 22.0E

SONIC DEPTH: 1438 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	21.318	35.286	---	---	---	21.318	24.626	33.033	41.079	0.007	---	2
10	21.262	35.285	---	---	---	21.260	24.642	33.050	41.098	0.033	4.51	10
20	20.201	35.256	---	---	---	20.197	24.906	33.347	41.424	0.065	5.28	20
30	19.843	35.256	---	---	---	19.837	25.001	33.453	41.541	0.095	5.69	30
40	19.857	35.265	---	---	---	19.850	25.004	33.456	41.543	0.125	6.17	40
50	19.822	35.284	---	---	---	19.813	25.029	33.481	41.570	0.154	6.75	50
100	15.615	35.436	---	---	---	15.599	26.175	34.764	42.980	0.267	6.03	100
124	14.346	35.271	---	---	---	14.328	26.328	34.964	43.225	0.310	4.68	124
150	13.530	35.255	---	---	---	13.509	26.497	35.154	43.444	0.352	4.14	150
174	12.863	35.254	1.88	83.9	31.7	12.839	26.622	35.315	43.629	0.389	3.76	174
200	12.037	35.175	2.02	90.0	33.4	12.011	26.723	35.449	43.794	0.425	3.19	200
224	11.735	35.159	2.17	96.9	35.7	11.706	26.769	35.507	43.863	0.458	2.67	224
250	11.235	35.100	2.23	99.7	36.3	11.204	26.817	35.576	43.952	0.491	2.16	250
274	11.033	35.087	2.27	101.3	36.7	10.999	26.844	35.612	43.996	0.522	1.91	273
300	10.760	35.056	2.16	96.7	34.8	10.723	26.870	35.649	44.044	0.555	1.73	299
350	10.544	35.064	2.03	90.5	32.5	10.502	26.915	35.704	44.107	0.616	1.67	349
400	10.303	35.062	1.83	81.8	29.2	10.255	26.957	35.756	44.169	0.676	1.51	399
450	10.269	35.092	1.68	75.2	26.8	10.215	26.987	35.788	44.202	0.735	1.54	449
500	10.283	35.152	1.40	62.4	22.3	10.223	27.032	35.832	44.245	0.793	1.84	499
600	10.109	35.247	0.98	43.7	15.6	10.037	27.139	35.945	44.364	0.902	1.78	599
700	9.493	35.234	0.84	37.7	13.2	9.412	27.234	36.066	44.511	1.003	1.44	699
800	9.134	35.239	0.83	37.0	12.9	9.043	27.299	36.147	44.606	1.099	1.51	799
900	8.642	35.238	0.81	36.1	12.4	8.642	27.378	36.248	44.728	1.190	1.74	899
1000	8.015	35.198	0.83	37.1	12.6	7.908	27.444	36.343	44.850	1.274	1.34	999
1200	6.861	35.106	1.07	47.5	15.7	6.742	27.538	36.493	45.051	1.431	1.65	1199
1400	5.353	34.995	1.49	66.3	21.1	5.228	27.645	36.673	45.302	1.568	1.30	1398
1430	5.238	34.985	---	---	---	5.111	27.651	36.686	45.320	1.586	---	1428

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
4	21.314	35.275	4.70	209.8	93.5	1.313	24.619	33.026	41.073	4
89	16.106	35.468	1.09	48.7	19.6	16.092	26.087	34.659	42.858	88
249	11.238	35.093	2.17	96.9	35.3	11.207	26.811	35.570	43.946	248
399	10.306	---	---	---	---	---	---	---	---	---
600	10.116	35.243	0.98	43.8	15.6	10.044	27.135	35.940	44.359	599
799	9.134	35.236	0.90	40.2	14.0	9.043	27.296	36.145	44.604	799
999	8.026	35.196	0.88	39.3	13.3	7.919	27.440	36.339	44.845	998
1200	6.874	35.105	1.07	47.8	15.8	6.754	27.536	36.489	45.047	1198
1427	5.243	34.982	1.54	68.8	21.8	5.116	27.648	36.682	45.316	1426

CDARWIN 26  
DATE: 7/30/87

STA: 60

TIME: 0340

LAT: 7° 40.0N

LON: 60° 40.0E

SONIC DEPTH: 2596 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	22.325	35.351	---	---	---	22.325	24.395	32.772	40.791	0.007	---	2
10	22.328	35.352	---	---	---	22.326	24.395	32.772	40.791	0.035	5.16	10
20	22.298	35.355	---	---	---	22.294	24.407	32.785	40.804	0.070	6.14	20
30	21.518	35.369	---	---	---	21.512	24.636	33.036	41.076	0.105	6.90	30
40	20.671	35.408	---	---	---	20.663	24.897	33.322	41.385	0.137	7.37	40
50	20.358	35.407	---	---	---	20.349	24.981	33.415	41.487	0.167	7.84	50
74	16.371	35.260	---	---	---	16.359	25.865	34.430	42.624	0.228	7.99	74
100	14.876	35.277	---	---	---	14.861	26.217	34.834	43.076	0.280	6.10	100
124	14.255	35.295	---	---	---	14.237	26.365	35.005	43.269	0.322	4.34	124
150	13.798	35.309	---	---	---	13.776	26.474	35.130	43.410	0.364	4.13	150
174	13.064	35.314	1.51	67.3	25.5	13.040	26.629	35.313	43.618	0.401	3.64	174
200	12.385	35.248	1.49	66.3	24.8	12.358	26.713	35.424	43.755	0.437	3.12	200
224	11.742	35.169	1.86	83.0	30.6	11.713	26.775	35.513	43.869	0.469	2.62	224
250	11.565	35.162	1.84	82.0	30.1	11.533	26.804	35.549	43.912	0.503	2.30	250
274	11.380	35.168	1.73	77.2	28.2	11.345	26.844	35.597	43.966	0.534	2.14	273
300	10.828	35.088	1.84	82.3	29.7	10.791	26.882	35.658	44.050	0.567	1.98	299
350	10.194	35.068	1.94	96.7	31.1	10.442	26.929	35.720	44.126	0.628	1.61	349
400	10.373	35.086	1.79	79.7	28.5	10.325	26.963	35.759	44.169	0.687	1.44	399
450	10.233	35.093	1.72	76.9	27.4	10.179	26.994	35.796	44.212	0.746	1.51	449
500	10.313	35.171	1.37	61.1	21.8	10.253	27.043	35.840	44.252	0.803	1.74	499
600	10.082	35.244	1.01	44.9	16.0	10.016	27.140	35.946	44.366	0.912	1.81	599
700	9.580	35.246	0.89	40.0	14.1	9.499	27.230	36.058	44.499	1.014	1.44	699
800	9.024	35.222	0.84	37.4	13.0	8.934	27.303	36.157	44.620	1.110	1.61	799
900	8.673	35.237	0.82	36.7	12.6	8.573	27.372	36.241	44.719	1.201	1.73	899
1000	7.883	35.182	0.89	39.6	13.4	7.777	27.451	36.356	44.869	1.286	1.49	999
1200	6.665	35.090	1.16	52.0	17.1	6.547	27.552	36.516	45.083	1.439	1.30	1199
1400	5.292	34.959	1.66	69.8	22.2	5.173	27.623	36.655	45.286	1.576	1.21	1398
1600	4.379	34.895	1.95	87.1	27.1	4.245	27.677	36.757	45.433	1.699	1.32	1598
1800	3.615	34.853	2.22	99.0	30.2	3.472	27.723	36.843	45.558	1.809	1.03	1798
2000	3.024	34.818	2.52	112.5	33.8	2.871	27.751	36.904	45.649	1.910	0.93	1998
2500	2.206	34.766	3.15	140.5	41.4	2.021	27.783	36.982	45.771	2.139	0.58	2498
2662	2.071	34.759	3.27	145.9	42.8	1.874	27.789	36.997	45.793	2.210	---	2660

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	22.326	35.348	4.72	210.7	95.5	22.324	24.392	32.770	40.788	9
149	13.808	35.308	1.45	64.7	24.9	13.787	26.471	35.127	43.406	148
349	10.482	35.066	1.97	87.9	31.5	10.440	26.928	35.719	44.125	348
699	9.580	35.249	0.84	37.5	13.2	9.499	27.232	36.060	44.501	698
997	7.893	35.187	0.87	38.8	13.2	7.787	27.453	36.358	44.870	996
1499	4.995	34.961	1.60	71.4	22.6	4.864	27.660	36.708	45.354	1497
1900	3.329	34.838	2.39	106.7	32.3	3.181	27.739	36.875	45.604	1898
2299	2.338	34.775	3.04	135.7	40.1	2.169	27.778	36.969	45.750	2297
2662	2.075	34.760	---	---	---	1.878	27.789	36.997	45.793	---

CDARWIN 25  
DATE: 7/30/87

STA: 51

LAT: 7° 42.0N  
TIME: 0700

LON: 50 55 0E

SONIC DEPTH: 3247 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	23.768	35.424	---	---	---	23.758	24.033	32.370	40.350	0.008	---	2
10	23.737	35.424	---	---	---	23.735	24.042	32.380	40.361	0.039	4.90	10
20	23.553	35.437	---	---	---	23.549	24.107	32.450	40.435	0.077	5.49	20
30	23.437	35.437	---	---	---	23.431	24.142	32.488	40.477	0.115	6.10	30
40	22.511	35.396	---	---	---	22.503	24.378	32.750	40.764	0.152	6.73	40
50	21.360	35.387	---	---	---	21.350	24.694	33.099	41.143	0.186	7.11	50
60	20.826	35.394	---	---	---	20.815	24.846	33.267	41.326	0.218	7.49	60
74	19.382	35.334	---	---	---	19.369	25.183	33.648	41.749	0.260	8.00	74
100	16.805	35.300	---	---	---	16.789	25.796	34.346	42.525	0.326	7.57	100
124	14.709	35.251	---	---	---	14.691	26.234	34.857	43.106	0.373	6.34	124
150	13.927	35.282	---	---	---	13.905	26.426	35.078	43.353	0.417	4.62	150
174	13.509	35.316	1.97	88.0	33.7	13.484	26.539	35.207	43.496	0.456	3.42	174
200	12.939	35.293	1.83	81.6	30.8	12.911	26.638	35.327	43.638	0.495	2.43	200
202	12.938	35.292	---	---	---	12.910	26.638	35.327	43.638	0.497	---	202

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	23.767	35.424	4.99	222.8	103.6	23.767	24.033	32.370	40.350	---
5	23.768	35.425	4.96	221.4	103.0	23.767	24.034	32.371	40.351	5
15	23.664	35.424	4.96	221.4	102.8	23.661	24.064	32.404	40.387	15
20	23.556	35.435	4.77	212.9	98.7	23.552	24.105	32.447	40.433	20
30	23.427	35.435	4.71	210.3	97.2	23.421	24.143	32.489	40.478	30
53	21.325	35.387	3.81	170.1	75.7	21.315	24.704	33.110	41.155	53
78	18.911	35.335	2.67	119.2	50.7	18.897	25.305	33.785	41.899	78
98	16.952	35.306	1.96	87.5	35.9	16.936	25.765	34.310	42.485	98
119	14.947	35.268	1.39	62.1	24.5	14.929	26.195	34.810	43.050	118

CDARWIN 26  
DATE: 7/30/87

STA: 62

TIME: 0855  
LAT: 7° 43' 0N

LON: 60° 53' 0E

SONIC DEPTH: 3252 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	23.876	35.457	---	---	---	23.876	24.027	32.360	40.337	0.008	---	2
10	23.800	35.458	---	---	---	23.798	24.049	32.385	40.364	0.039	5.10	10
20	23.530	35.471	---	---	---	23.526	24.139	32.482	40.468	0.077	5.76	20
30	23.314	35.465	---	---	---	23.308	24.198	32.547	40.539	0.115	6.27	30
40	22.017	35.405	---	---	---	22.009	24.524	32.910	40.936	0.151	6.65	40
50	21.258	35.416	---	---	---	21.248	24.743	33.151	41.198	0.184	7.06	50
60	20.593	35.423	---	---	---	20.582	24.930	33.358	41.423	0.215	7.47	60
74	19.148	35.373	---	---	---	19.135	25.273	33.746	41.852	0.256	8.04	74
100	16.037	35.367	---	---	---	16.021	26.026	34.601	42.804	0.318	7.47	100
124	14.622	35.286	---	---	---	14.604	26.280	34.906	43.157	0.363	6.15	124
150	13.971	35.304	---	---	---	13.949	26.434	35.083	43.357	0.407	4.64	150
174	13.605	35.340	1.54	68.9	26.4	13.580	26.538	35.201	43.487	0.445	3.74	174
200	12.908	35.298	1.55	69.3	26.2	12.880	26.648	35.339	43.650	0.484	3.41	200
224	12.686	35.338	1.51	67.5	25.4	12.656	26.724	35.423	43.742	0.518	3.05	223
250	12.220	35.322	1.29	57.8	21.5	12.187	26.804	35.521	43.857	0.552	2.62	249
274	11.918	35.279	1.52	67.8	25.1	11.882	26.829	35.558	43.906	0.583	2.27	273
300	11.665	35.253	1.47	66.6	24.2	11.626	26.857	35.598	43.956	0.617	2.05	299
350	11.194	35.228	1.45	64.8	23.6	11.150	26.926	35.686	44.062	0.678	1.80	349
400	10.946	35.207	1.52	68.1	24.7	10.896	26.956	35.727	44.113	0.738	1.51	399
450	10.851	35.231	1.23	55.0	19.9	10.795	26.993	35.767	44.157	0.797	1.52	449
500	10.660	35.245	1.03	45.8	16.5	10.599	27.039	35.822	44.219	0.855	1.74	499
600	10.319	35.310	0.94	41.9	15.0	10.246	27.152	35.947	44.357	0.964	1.73	599
700	9.745	35.261	0.81	36.0	12.7	9.663	27.214	36.035	44.469	1.067	1.74	699
800	9.607	35.356	0.70	31.1	11.0	9.513	27.313	36.139	44.578	1.164	1.37	799
900	9.306	35.360	0.64	28.7	10.0	9.202	27.368	36.207	44.658	1.256	1.67	899
1000	8.437	35.291	0.67	29.9	10.2	8.327	27.453	36.332	44.820	1.341	1.63	999
1200	6.960	35.172	0.91	40.8	13.5	6.840	27.577	36.526	45.079	1.495	1.49	1199
1400	5.520	35.013	1.38	61.8	19.8	5.393	27.639	36.660	45.280	1.628	1.28	1398
1600	4.299	34.912	1.96	87.6	27.2	4.166	27.699	36.783	45.462	1.747	1.10	1598
1800	3.476	34.858	2.24	100.0	30.4	3.335	27.740	36.868	45.589	1.854	1.08	1798
2000	2.963	34.828	2.42	108.2	32.5	2.811	27.765	36.921	45.668	1.952	0.82	1998
2500	2.092	34.765	3.16	140.9	41.4	1.910	27.791	36.997	45.791	2.176	0.49	2498
3000	1.825	34.750	3.36	150.2	43.8	1.601	27.802	37.025	45.836	2.388	0.31	2998
3274	1.712	34.741	3.58	159.7	46.4	1.453	27.805	37.036	45.854	2.504	---	3272

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	23.801	---	5.01	---	---	---	---	---	---	---
399	10.939	---	1.55	---	---	---	---	---	---	---
799	9.607	35.335	0.77	34.4	12.1	9.513	27.297	36.123	44.562	798
1199	6.962	35.159	0.97	43.3	14.3	6.842	27.566	36.515	45.069	1197
1599	4.298	34.908	1.93	86.2	26.7	4.165	27.696	36.779	45.459	1597
2097	2.675	34.800	2.77	123.7	36.8	2.519	27.768	36.940	45.703	2095
2498	2.093	34.768	3.17	141.5	41.5	1.911	27.793	36.999	45.793	2496
2899	1.841	34.750	3.46	154.5	45.0	1.626	27.800	37.022	45.832	2896
3274	1.722	34.739	3.64	162.5	47.2	1.473	27.803	37.033	45.851	3271

CDARWIN 25  
DATE: 7/30/87

STA: 53

LAT: 7° 32.0N  
TIME: 1357

LON 51 5 0E

SONIC DEPTH: 3905 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	24.447	35.530	---	---	---	24.446	23.911	32.229	40.191	0.016	---	4
10	24.425	35.529	---	---	---	24.423	23.918	32.236	40.199	0.040	5.26	10
20	24.266	35.626	---	---	---	24.262	23.963	32.286	40.253	0.080	5.86	20
30	23.842	35.504	---	---	---	23.836	24.073	32.408	40.385	0.119	6.39	30
40	22.893	35.419	---	---	---	22.886	24.287	32.648	40.651	0.156	6.80	40
50	21.605	35.392	---	---	---	21.595	24.630	33.028	41.066	0.191	7.23	50
60	20.472	35.439	---	---	---	20.461	24.975	33.406	41.474	0.223	7.47	60
74	19.577	35.428	---	---	---	19.563	25.204	33.662	41.756	0.263	7.83	74
100	17.047	35.366	---	---	---	17.031	25.789	34.330	42.501	0.329	7.37	100
124	15.338	35.323	---	---	---	15.319	26.151	34.751	42.978	0.378	6.07	124
150	14.738	35.379	---	---	---	14.716	26.327	34.948	43.194	0.425	4.82	150
174	13.936	35.304	1.98	88.3	34.1	13.911	26.442	35.093	43.368	0.465	3.86	174
200	13.653	35.319	1.80	80.5	30.9	13.625	26.513	35.175	43.460	0.507	3.52	200
224	13.115	35.317	1.62	72.1	27.4	13.084	26.622	35.305	43.609	0.544	3.31	223
250	12.776	35.348	1.40	62.3	23.5	12.742	26.715	35.410	43.726	0.581	3.10	249
274	12.447	35.331	1.39	62.1	23.2	12.410	26.767	35.475	43.803	0.614	2.76	273
300	12.078	35.314	1.37	61.3	22.8	12.038	26.826	35.549	43.891	0.648	2.46	299
350	12.242	35.468	0.81	36.4	13.6	12.195	26.916	35.631	43.965	0.711	2.39	349
400	11.543	35.402	0.87	38.8	14.3	11.491	26.998	35.742	44.103	0.771	2.07	399
450	10.995	35.332	1.00	44.5	13.1	10.949	27.040	35.813	44.196	0.828	1.66	449
500	10.815	35.329	1.03	46.1	16.7	10.753	27.077	35.852	44.242	0.883	1.60	499
600	10.662	35.389	0.78	34.7	12.5	10.588	27.153	35.934	44.329	0.990	1.64	599
700	10.190	35.421	0.61	27.4	9.8	10.105	27.263	36.063	44.477	1.091	1.72	699
800	9.478	35.367	0.59	26.5	9.3	9.386	27.343	36.175	44.618	1.185	1.61	799
900	8.946	35.341	0.61	27.4	9.5	8.844	27.411	36.266	44.732	1.272	1.41	899
1000	8.690	35.373	0.64	28.5	9.8	8.578	27.478	36.344	44.821	1.355	1.62	999
1200	6.868	35.151	1.01	45.2	15.0	6.748	27.573	36.526	45.084	1.506	1.44	1199
1400	5.589	35.029	1.36	60.7	19.5	5.461	27.643	36.660	45.277	1.639	1.30	1398
1600	4.283	34.916	1.91	85.2	26.4	4.150	27.704	36.788	45.468	1.758	1.17	1598
1800	3.507	34.860	2.32	103.5	31.5	3.366	27.739	36.865	45.584	1.864	0.93	1796
2000	2.944	34.819	2.63	117.2	35.2	2.793	27.759	36.916	45.665	1.962	0.70	1998
2500	2.081	34.764	3.13	139.6	41.0	1.899	27.791	36.997	45.792	2.183	0.58	2498
3000	1.799	34.746	3.47	154.8	45.1	1.575	27.801	37.026	45.838	2.395	0.31	2998
3500	1.623	34.734	3.82	170.6	49.5	1.353	27.807	37.045	45.869	2.606	-0.22	3497
3942	1.488	34.727	3.99	178.2	51.5	1.175	27.814	37.062	45.895	2.793	---	3939

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
20	24.257	35.478	5.06	225.9	106.0	24.253	23.930	32.253	40.221	20
599	10.660	35.352	0.78	34.8	12.6	10.586	27.125	35.906	44.302	598
999	8.684	35.336	0.59	26.3	9.1	8.572	27.450	36.318	44.795	998
1500	4.811	34.943	1.76	78.6	24.7	4.682	27.667	36.724	45.378	1498
2099	2.664	34.801	2.71	121.0	36.0	2.508	27.770	36.943	45.706	2097
2600	2.014	34.759	3.24	144.6	42.4	1.824	27.792	37.003	45.802	2598
2999	1.796	34.746	3.47	154.9	45.1	1.572	27.801	37.026	45.838	2997
3500	1.625	34.735	---	---	---	1.355	27.808	37.045	45.869	3497
3942	1.496	34.728	3.98	177.7	51.4	1.183	27.814	37.062	45.895	3939

CDARWIN 25  
DATE: 7/30/87

STA: 54

TIME: 1834

LAT: 7° 25.0N

LON: 61° 12.0E

SONIC DEPTH: 4878 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	24.432	35.517	---	---	---	24.431	23.906	32.224	40.187	0.016	---	4
10	24.383	35.514	---	---	---	24.381	23.919	32.238	40.203	0.040	4.27	10
20	23.286	35.437	---	---	---	23.282	24.185	32.535	40.527	0.078	4.65	20
30	22.823	35.397	---	---	---	22.817	24.289	32.652	40.657	0.115	4.87	30
40	22.639	35.381	---	---	---	22.631	24.330	32.699	40.709	0.151	5.06	40
50	22.348	35.359	---	---	---	22.338	24.397	32.774	40.792	0.187	5.46	50
60	21.074	35.275	---	---	---	21.063	24.688	33.103	41.156	0.222	5.99	60
74	20.653	35.302	---	---	---	20.639	24.823	33.250	41.315	0.266	6.63	74
100	19.762	35.458	---	---	---	19.744	25.180	33.632	41.721	0.344	7.13	100
124	17.381	35.342	---	---	---	17.360	25.691	34.221	42.382	0.407	6.99	124
150	15.901	35.326	---	---	---	15.877	26.027	34.608	42.816	0.463	6.11	150
174	14.880	35.359	2.82	126.0	49.6	14.854	26.282	34.898	43.140	0.508	5.11	174
200	14.380	35.416	4.10	183.2	71.4	14.351	26.435	35.069	43.327	0.553	4.27	199
224	13.367	35.276	3.38	151.0	57.6	13.335	26.539	35.213	43.508	0.591	3.60	223
250	13.252	35.349	3.32	148.1	56.4	13.217	26.620	35.297	43.596	0.631	3.11	249
274	12.787	35.289	2.82	125.8	47.4	12.750	26.668	35.363	43.680	0.666	2.79	273
300	12.631	35.343	2.65	118.2	44.4	12.590	26.741	35.442	43.763	0.702	2.56	299
350	12.236	35.347	2.15	95.9	35.8	12.189	26.823	35.540	43.875	0.770	2.24	349
400	12.289	35.458	1.76	78.6	29.4	12.235	26.900	35.613	43.946	0.835	2.57	399
450	11.453	35.397	1.78	78.7	28.9	11.395	27.012	35.760	44.125	0.894	2.18	449
500	11.135	35.370	1.75	78.3	28.5	11.072	27.051	35.812	44.190	0.951	1.69	499
600	10.711	35.399	1.47	65.5	23.6	10.637	27.153	35.931	44.325	1.060	1.67	599
700	10.517	35.470	1.08	48.0	17.3	10.431	27.244	36.030	44.431	1.162	1.64	699
800	10.006	35.472	0.94	41.9	14.9	9.910	27.337	36.144	44.565	1.258	1.77	799
900	9.145	35.375	0.82	36.8	12.8	9.042	27.405	36.252	44.709	1.347	1.63	899
1000	8.418	35.322	0.77	34.3	11.8	8.308	27.480	36.359	44.848	1.430	1.62	999
1200	6.828	35.142	1.09	48.4	16.0	6.709	27.571	36.527	45.086	1.580	1.34	1198
1400	5.484	35.010	1.44	64.1	20.5	5.357	27.641	36.663	45.286	1.714	1.34	1398
1600	4.524	34.949	1.75	78.3	24.5	4.388	27.704	36.776	45.444	1.833	1.17	1598
1800	3.456	34.857	2.32	103.3	31.4	3.315	27.741	36.870	45.592	1.939	0.88	1798
2000	2.862	34.813	2.73	122.0	36.5	2.712	27.762	36.924	45.676	2.037	0.96	1998
2500	2.062	34.762	3.22	143.8	42.2	1.880	27.791	36.996	45.794	2.260	0.54	2498
3000	1.771	34.744	3.55	158.5	46.1	1.548	27.801	37.028	45.841	2.473	0.38	2998
3500	1.653	34.735	3.84	171.4	49.7	1.383	27.806	37.042	45.864	2.684	0.00	3497
4000	1.442	34.724	4.09	182.4	52.6	1.124	27.815	37.065	45.902	2.895	-0.31	3997
4500	1.362	34.718	4.20	187.5	54.0	0.991	27.820	37.078	45.921	3.103	0.00	4497
4944	1.382	34.717	4.08	182.1	52.5	0.958	27.821	37.081	45.926	3.291	---	4941

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
8	24.390	35.466	5.09	227.2	106.9	24.388	23.880	32.200	40.165	8
669	10.837	35.461	1.04	46.4	16.8	10.753	27.180	35.953	44.341	668
1199	6.810	35.116	1.07	47.8	15.8	6.691	27.553	36.510	45.070	1197
1798	3.462	---	---	---	---	---	---	---	---	---
2399	2.196	34.769	3.11	138.8	40.9	2.021	27.785	36.985	45.773	2397
2999	1.768	34.743	3.52	157.1	45.7	1.545	27.801	37.027	45.841	2996
3598	1.635	34.734	3.82	170.5	49.5	1.355	27.807	37.044	45.868	3595
4199	1.415	34.721	4.09	182.6	52.7	1.076	27.816	37.069	45.908	4196
4945	1.396	34.719	4.24	189.3	54.6	0.972	27.822	37.081	45.925	---

CDARWIN 25  
DATE: 7/31/87

STA: 55

LAT: 7° 16.0N  
TIME: 0050

LON: 51 35 0E

SONIC DEPTH: 4934 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	24.966	35.154	---	---	---	24.965	23.470	31.779	39.732	0.018	---	4
10	24.968	35.155	---	---	---	24.966	23.471	31.779	39.733	0.044	4.48	10
20	24.810	35.168	---	---	---	24.806	23.529	31.841	39.799	0.088	4.95	20
30	24.556	35.178	---	---	---	24.550	23.614	31.933	39.896	0.131	5.31	30
40	23.796	35.121	---	---	---	23.788	23.798	32.138	40.121	0.174	5.60	40
50	22.900	35.079	---	---	---	22.890	24.027	32.392	40.398	0.214	5.82	50
60	22.380	35.086	---	---	---	22.368	24.181	32.560	40.581	0.252	5.94	60
74	21.544	35.141	---	---	---	21.530	24.457	32.860	40.902	0.303	6.59	74
100	20.745	35.196	---	---	---	20.726	24.719	33.145	41.208	0.390	7.29	100
124	19.670	35.219	---	---	---	19.647	25.022	33.481	41.575	0.467	8.06	124
150	16.905	35.327	---	---	---	16.880	25.795	34.341	42.517	0.532	7.67	149
174	15.130	35.386	2.32	103.6	41.0	15.103	26.248	34.855	43.088	0.580	6.50	173
200	14.414	35.396	1.72	76.9	30.0	14.384	26.412	35.045	43.302	0.625	4.76	195
224	13.466	35.343	1.46	65.1	24.9	13.434	26.571	35.240	43.531	0.664	3.92	223
250	12.698	35.242	1.81	80.6	30.3	12.664	26.648	35.348	43.668	0.702	3.18	249
274	12.736	35.319	1.89	84.4	31.8	12.699	26.701	35.398	43.716	0.737	2.69	273
300	12.239	35.250	1.56	69.8	26.0	12.199	26.746	35.464	43.800	0.773	2.38	299
350	12.226	35.355	1.38	61.6	23.0	12.179	26.831	35.548	43.884	0.839	2.12	349
400	11.691	35.299	1.56	69.2	25.5	11.639	26.891	35.630	43.987	0.903	1.93	399
450	11.600	35.348	0.98	43.6	16.0	11.542	26.947	35.689	44.049	0.965	1.95	449
500	11.743	35.476	0.80	35.5	13.1	11.677	27.021	35.756	44.109	1.025	1.96	499
600	12.055	35.720	0.42	18.9	7.0	11.975	27.154	36.874	44.213	1.137	2.14	599
700	11.301	35.687	0.36	16.1	5.9	11.211	27.272	36.023	44.391	1.239	1.90	699
800	10.111	35.529	0.46	20.4	7.3	10.014	27.363	36.166	44.582	1.333	1.67	799
900	9.432	35.455	0.49	21.7	7.6	9.327	27.421	36.254	44.699	1.420	1.49	899
1000	8.804	35.393	0.63	27.9	9.7	8.691	27.476	36.337	44.808	1.502	1.41	999
1200	6.933	35.162	0.91	40.4	13.4	6.813	27.573	36.523	45.078	1.654	1.34	1198
1400	5.406	35.007	1.44	64.1	20.5	5.280	27.648	36.674	45.300	1.787	1.26	1398
1600	4.288	34.921	1.74	77.6	24.1	4.155	27.707	36.791	45.471	1.903	1.14	1598
1800	3.403	34.853	2.24	100.1	30.4	3.263	27.743	36.875	45.599	2.008	0.93	1798
2000	2.857	34.815	2.61	116.7	34.9	2.707	27.764	36.925	45.678	2.105	0.79	1998
2500	2.153	34.766	3.09	137.9	40.6	1.969	27.787	36.990	45.781	2.330	0.49	2498
3000	1.866	34.749	3.39	151.5	44.2	1.641	27.798	37.019	45.828	2.546	0.38	2997
3500	1.701	34.738	3.71	165.6	48.1	1.429	27.805	37.038	45.858	2.762	0.54	3497
4000	1.427	34.723	4.14	185.0	53.4	1.110	27.816	37.067	45.904	2.973	0.31	3997
4500	1.356	34.718	4.27	190.4	54.8	0.985	27.820	37.079	45.922	3.179	0.00	4497
4810	1.363	34.718	---	---	---	0.956	27.822	37.082	45.927	3.309	---	4807

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
29	24.556	35.131	5.04	225.0	105.9	24.550	23.578	31.898	39.862	20
300	12.228	35.235	1.65	73.7	27.4	12.188	26.736	35.454	43.792	298
698	11.353	35.646	0.36	16.1	5.9	11.263	27.231	35.980	44.347	298
1499	4.816	---	1.59	---	---	---	---	---	---	---
2200	2.496	34.790	2.91	129.9	38.5	2.334	27.776	36.958	45.731	2197
2897	1.902	34.752	3.34	149.1	43.6	1.686	27.797	37.016	45.822	2895
3591	1.635	---	---	---	---	---	---	---	---	---
4199	1.362	---	4.16	---	---	---	---	---	---	---
4804	1.363	34.719	4.20	187.5	54.0	0.957	27.823	37.083	45.928	4801



CDARWIN 25  
DATE: 7/31/87

STA: 66

TIME: 0733

LAT: 6° 57.0N

LON: 51° 53.0E

SONIC DEPTH: 5093 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.431	35.206	---	---	---	25.431	23.367	31.663	39.606	0.009	---	2
10	25.361	35.205	---	---	---	25.369	23.389	31.686	39.630	0.045	3.14	10
20	25.286	35.204	---	---	---	25.282	23.412	31.711	39.657	0.090	3.74	20
30	25.262	35.206	---	---	---	25.265	23.421	31.721	39.667	0.134	4.18	30
40	25.245	35.207	---	---	---	25.236	23.428	31.728	39.675	0.179	4.56	40
50	25.196	35.214	---	---	---	25.185	23.448	31.750	39.698	0.224	4.96	50
60	25.082	35.232	---	---	---	25.089	23.497	31.802	39.752	0.268	5.36	60
74	23.751	35.237	---	---	---	23.736	23.901	32.241	40.224	0.328	5.88	74
100	22.349	35.217	---	---	---	22.329	24.291	32.670	40.690	0.425	5.85	100
124	22.206	35.189	---	---	---	22.181	24.312	32.695	40.720	0.512	6.53	123
150	21.547	35.138	---	---	---	21.518	24.468	32.861	40.904	0.606	7.31	149
174	17.680	35.200	2.74	122.2	50.8	17.650	25.512	34.034	42.188	0.679	7.73	173
200	16.576	35.257	2.19	97.7	39.7	16.544	25.820	34.379	42.566	0.739	7.07	199
224	15.556	35.258	2.09	93.3	37.2	15.521	26.056	34.649	42.870	0.791	6.36	223
250	14.227	35.322	1.50	66.8	26.0	14.190	26.397	35.037	43.302	0.838	5.22	249
274	12.101	35.046	3.41	152.1	56.4	12.065	26.613	35.339	43.683	0.876	4.36	273
300	11.597	35.017	3.40	152.0	55.8	11.559	26.687	35.433	43.796	0.913	2.99	299
350	11.367	35.014	3.11	138.7	50.6	11.323	26.728	35.483	43.856	0.984	1.24	349
386	11.666	35.103	2.62	116.8	43.0	11.616	26.743	35.485	43.846	1.034	---	385

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
1	25.432	35.206	4.80	214.3	102.4	25.432	23.367	31.663	39.604	---
6	25.389	35.206	4.71	210.3	100.4	25.388	23.380	31.677	39.620	6
14	25.316	35.205	4.81	214.7	102.4	25.313	23.402	31.701	39.646	14
22	25.279	35.205	4.65	207.6	99.0	25.274	23.414	31.714	39.660	22
34	25.254	35.206	4.60	205.4	97.9	25.247	23.424	31.724	39.670	34
58	25.097	35.228	4.50	200.9	95.5	25.084	23.490	31.794	39.744	58
109	22.321	35.211	3.67	163.8	74.2	22.299	24.295	32.675	40.696	109
339	11.375	35.006	3.25	145.1	53.0	11.332	26.720	35.475	43.848	338
394	12.091	---	2.27	---	---	---	---	---	---	---

CDARWIN 25  
DATE: 7/31/87

STA: 57

TIME: 1122

LAT: 6° 56.0N

LON: 51° 49.0E

SONIC DEPTH: 5083 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.593	35.258	---	---	---	25.593	23.357	31.648	39.585	0.009	---	2
10	25.577	35.257	---	---	---	25.575	23.361	31.653	39.590	0.045	3.25	10
20	25.385	35.253	---	---	---	25.381	23.418	31.715	39.657	0.090	4.01	20
30	25.334	35.262	---	---	---	25.327	23.441	31.739	39.682	0.135	4.52	30
40	25.294	35.269	---	---	---	25.285	23.459	31.758	39.702	0.179	4.97	40
50	25.187	35.277	---	---	---	25.176	23.498	31.800	39.747	0.223	5.44	50
60	24.940	35.277	---	---	---	24.927	23.575	31.883	39.836	0.267	5.93	60
100	22.196	35.249	---	---	---	22.176	24.359	32.742	40.765	0.420	5.51	100
124	22.013	35.225	---	---	---	21.988	24.393	32.782	40.811	0.507	5.86	124
150	21.466	35.162	---	---	---	21.437	24.499	32.904	40.949	0.599	6.84	149
174	18.424	35.224	2.91	130.0	54.8	18.394	25.347	33.845	41.976	0.675	7.60	173
200	16.626	35.274	2.28	101.7	41.4	16.593	25.822	34.378	42.564	0.737	6.65	199
224	16.164	35.296	2.09	93.5	37.7	16.128	25.947	34.519	42.720	0.790	6.35	223
250	14.321	35.360	1.74	77.5	30.2	14.284	26.406	35.043	43.304	0.839	5.70	249
300	11.622	35.034	3.23	144.2	53.0	11.583	26.695	35.440	43.802	0.915	3.42	299
350	11.325	35.013	3.05	136.2	49.7	11.281	26.735	35.492	43.866	0.956	1.75	349
400	12.332	35.341	1.11	49.6	18.5	12.278	26.801	35.514	43.847	1.055	2.33	399
450	11.820	35.347	1.11	49.3	18.2	11.761	26.905	35.639	43.990	1.120	2.47	449
500	11.226	35.298	1.12	50.0	18.2	11.163	26.979	35.737	44.112	1.181	2.28	499
600	10.582	35.335	0.91	40.8	14.7	10.508	27.125	35.910	44.309	1.294	2.05	599
700	9.448	35.247	0.93	41.7	14.6	9.367	27.252	36.086	44.532	1.395	1.81	699
800	8.954	35.227	0.84	37.6	13.1	8.864	27.318	36.174	44.641	1.488	1.30	799
900	8.594	35.247	0.86	38.2	13.2	8.495	27.393	36.265	44.746	1.577	1.55	898
1000	8.133	35.235	0.87	38.7	13.2	8.025	27.455	36.348	44.850	1.661	1.60	998
1200	6.715	35.116	1.04	46.6	15.3	6.597	27.566	36.527	45.092	1.814	1.46	1198
1400	5.419	35.008	1.54	68.6	21.9	5.293	27.647	36.673	45.298	1.946	1.37	1398
1600	4.103	34.903	1.96	87.5	27.0	3.973	27.712	36.806	45.495	2.061	1.14	1598
1800	3.417	34.852	2.40	107.2	32.6	3.277	27.741	36.872	45.596	2.165	0.88	1798
2000	2.812	34.804	2.77	123.7	37.0	2.663	27.759	36.924	45.679	2.262	0.79	1998
2500	2.116	34.763	3.22	143.7	42.2	1.933	27.787	36.992	45.785	2.485	0.49	2498
3000	1.844	34.747	3.46	154.5	45.0	1.619	27.799	37.021	45.831	2.700	0.22	2997
3500	1.674	34.736	3.73	166.4	48.3	1.403	27.806	37.040	45.861	2.914	0.44	3497
4000	1.470	34.726	4.01	179.2	51.8	1.152	27.815	37.064	45.898	3.125	0.31	3997
4500	1.378	34.720	4.18	186.8	53.8	1.007	27.820	37.077	45.920	3.334	0.22	4497
5000	1.377	34.718	4.30	192.0	55.3	0.947	27.822	37.083	45.929	3.547	-0.38	4996
5154	1.394	34.718	4.32	192.9	55.6	0.944	27.823	37.083	45.929	3.614	---	5150

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
698	9.453	35.227	0.93	41.5	14.6	9.373	27.236	36.070	44.516	696
1199	6.714	35.104	1.06	47.3	15.6	6.596	27.557	36.518	45.083	1197
1778	3.460	34.853	2.28	101.8	30.9	3.321	27.737	36.866	45.588	1776
2300	2.314	34.774	3.08	137.5	40.6	2.146	27.779	36.972	45.754	2297
2700	1.977	34.753	3.41	152.2	44.6	1.778	27.791	37.005	45.806	2697
3098	1.820	34.746	3.46	154.5	45.0	1.586	27.800	37.024	45.836	3093
3598	1.632	---	---	---	---	---	---	---	---	---
4200	1.426	34.726	4.10	183.0	52.8	1.087	27.819	37.072	45.910	4197
5153	1.396	34.720	---	---	---	0.946	27.824	37.085	45.931	5150

CDARWIN 25  
DATE: 7/31/87

STA: 58

TIME: 1557

LAT: 6° 44.0N

LON: 61° 50 OE

SONIC DEPTH: 5093 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.599	35.255	---	---	---	25.599	23.352	31.643	39.581	0.009	---	2
10	25.595	35.255	---	---	---	25.593	23.354	31.646	39.583	0.045	2.32	10
20	25.559	35.255	---	---	---	25.555	23.366	31.658	39.596	0.090	3.11	20
30	25.474	35.252	---	---	---	25.467	23.391	31.685	39.625	0.135	3.81	30
40	25.351	35.251	---	---	---	25.342	23.428	31.726	39.669	0.180	4.31	40
50	25.279	35.251	---	---	---	25.268	23.451	31.751	39.696	0.225	4.75	50
60	25.135	35.252	---	---	---	25.122	23.496	31.799	39.748	0.289	5.20	60
74	24.840	35.252	---	---	---	24.824	23.587	31.898	39.854	0.330	5.83	74
100	22.229	35.232	---	---	---	22.209	24.337	32.719	40.742	0.433	5.72	100
124	21.987	35.218	---	---	---	21.962	24.395	32.785	40.814	0.520	4.86	123
150	21.841	35.207	---	---	---	21.812	24.429	32.823	40.857	0.612	5.61	149
174	20.939	35.171	3.10	138.3	61.2	20.906	24.651	33.072	41.131	0.696	6.68	173
224	16.921	35.248	2.50	111.7	45.7	16.884	25.733	34.280	42.457	0.833	7.64	223
250	14.711	35.271	2.08	93.0	36.5	14.674	26.253	34.877	43.126	0.690	7.39	249
274	12.330	35.062	3.32	148.2	55.3	12.293	26.581	35.298	43.634	0.930	6.00	273
300	11.909	35.047	3.05	136.3	50.4	11.870	26.651	35.385	43.736	0.969	3.72	299
350	11.353	35.030	2.84	126.7	46.3	11.309	26.743	35.499	43.872	1.039	1.98	349
400	11.038	35.008	2.84	125.8	46.0	10.988	26.785	35.554	43.940	1.107	1.71	399
450	11.604	35.228	1.86	83.0	30.5	11.546	26.853	35.596	43.958	1.174	1.84	449
500	11.132	35.165	1.60	71.3	25.9	11.069	26.892	35.656	44.036	1.239	2.35	499
600	9.824	35.169	1.43	63.8	22.5	9.754	27.127	35.945	44.377	1.356	2.21	599
700	10.542	35.463	0.62	27.5	9.9	10.455	27.235	36.020	44.420	1.459	1.85	699
800	8.365	35.093	1.01	45.0	15.4	8.279	27.305	36.189	44.682	1.554	1.47	798
900	8.714	35.273	0.65	28.8	10.0	8.614	27.394	36.260	44.737	1.644	1.79	898
1000	7.845	35.177	0.74	33.1	11.2	7.739	27.452	36.359	44.874	1.727	1.41	998
1200	6.408	35.037	1.03	46.1	15.1	6.293	27.545	36.521	45.100	1.880	0.93	1198
1206	6.411	35.041	---	---	---	6.295	27.547	36.523	45.102	1.884	---	1204

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.278	35.257	4.73	211.2	100.7	25.267	23.456	31.755	39.700	49
149	21.854	35.208	3.53	157.6	70.8	21.825	24.426	32.820	40.853	148
208	17.449	35.242	2.61	116.5	48.2	17.414	25.602	34.131	42.292	207
290	11.944	35.041	3.29	146.9	54.3	11.906	26.639	35.371	43.722	289
399	11.039	35.010	2.89	129.0	46.8	10.989	26.786	35.555	43.940	398
500	11.212	35.163	1.87	83.5	30.4	11.149	26.876	35.637	44.014	499
698	10.544	35.468	0.54	24.1	8.7	10.458	27.238	36.023	44.423	697
899	8.720	35.278	0.64	28.6	9.9	8.620	27.397	36.263	44.739	897
1199	6.416	35.038	1.19	53.1	17.4	6.301	27.544	36.520	45.099	1197

CDARWIN 25  
DATE: 7/31/87

STA: 59

TIME: 2038

LAT: 6 34.0N

LCN 52 1. OF

SONIC DEPTH: 5104 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.504	35.296	---	---	---	25.504	23.413	31.706	39.645	0.009	---	2
10	25.506	35.296	---	---	---	25.504	23.413	31.705	39.645	0.045	1.45	10
20	25.496	35.295	---	---	---	25.492	23.415	31.709	39.649	0.089	1.75	20
30	25.445	35.290	---	---	---	25.438	23.428	31.723	39.664	0.134	2.05	30
40	25.334	35.284	---	---	---	25.325	23.458	31.756	39.699	0.178	2.42	40
50	25.286	35.280	---	---	---	25.275	23.471	31.770	39.715	0.223	2.87	50
60	25.213	35.276	---	---	---	25.200	23.491	31.792	39.738	0.267	3.41	60
74	25.118	35.271	---	---	---	25.102	23.517	31.820	39.769	0.329	4.26	74
100	24.474	35.224	---	---	---	24.453	23.678	31.999	39.964	0.442	5.38	100
124	23.242	35.237	---	---	---	23.216	24.053	32.407	40.403	0.540	5.92	123
150	21.834	35.193	---	---	---	21.805	24.421	32.815	40.849	0.677	6.26	149
174	21.515	35.194	8.46	377.6	168.5	21.481	24.511	32.915	40.957	0.721	6.47	173
200	19.480	35.225	7.59	338.7	145.7	19.444	25.080	33.545	41.644	0.807	6.93	199
224	18.146	35.234	7.00	312.4	131.0	18.107	25.426	33.932	42.071	0.873	7.40	223
250	16.730	35.173	7.55	337.3	137.6	16.689	25.722	34.276	42.460	0.939	7.55	249
274	12.881	35.087	7.01	312.9	118.1	12.843	26.493	35.187	43.503	0.985	6.55	273
300	12.451	35.123	5.00	223.1	83.4	12.411	26.605	35.316	43.647	1.026	4.91	299
350	11.898	35.145	5.22	233.1	86.2	11.852	26.730	35.463	43.814	1.098	2.44	349
400	11.314	35.081	4.86	217.0	79.2	11.263	26.791	35.548	43.922	1.166	2.02	399
450	10.985	35.083	4.01	179.1	64.9	10.929	26.853	35.624	44.011	1.232	1.98	449
500	10.594	35.064	3.69	164.9	59.2	10.533	26.910	35.697	44.100	1.296	2.05	499
600	10.171	35.138	2.13	95.0	33.8	10.099	27.044	35.848	44.266	1.416	2.15	599
700	10.359	35.403	1.58	70.7	25.3	10.274	27.220	36.013	44.421	1.525	2.48	698
800	8.980	35.238	1.14	51.1	17.7	8.890	27.323	36.178	44.643	1.619	1.46	798
900	8.135	35.122	1.37	61.0	20.8	8.039	27.364	36.258	44.761	1.709	1.54	898
1000	7.682	35.138	0.97	43.2	14.5	7.578	27.445	36.360	44.882	1.793	1.54	998
1200	6.659	35.078	1.03	45.9	15.1	6.541	27.543	36.507	45.075	1.947	1.39	1198
1400	5.703	34.985	1.29	57.4	18.4	5.574	27.594	36.607	45.219	2.088	1.43	1398
1600	4.034	34.850	1.97	87.8	27.1	3.905	27.677	36.775	45.468	2.212	1.32	1598
1800	3.343	34.828	2.29	102.4	31.0	3.204	27.729	36.863	45.591	2.319	1.01	1798
2000	2.853	34.806	2.61	116.6	34.9	2.703	27.757	36.919	45.672	2.416	0.79	1998
2500	2.071	34.758	3.30	147.3	43.2	1.889	27.786	36.994	45.789	2.639	0.44	2497
3000	1.832	34.746	3.49	155.9	45.5	1.608	27.799	37.022	45.832	2.854	0.31	2997
3500	1.638	34.735	3.81	170.2	49.4	1.368	27.807	37.044	45.867	3.067	0.38	3497
4000	1.469	34.726	4.04	180.4	52.1	1.151	27.815	37.064	45.899	3.275	0.38	3997
4500	1.381	34.721	4.16	185.7	53.5	1.009	27.821	37.078	45.920	3.484	0.00	4497
5000	1.379	34.719	4.23	188.9	54.4	0.949	27.823	37.083	45.929	3.697	0.00	4996
5172	1.390	34.719	4.24	189.2	54.5	0.938	27.824	37.085	45.931	3.771	---	5168

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2 SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
9	25.505	35.300	4.79	213.8	102.4	25.503	23.416	31.709	39.648	9
798	9.002	35.255	1.15	51.3	17.8	8.912	27.333	36.186	44.651	797
1249	6.001	34.980	1.42	63.4	20.5	5.884	27.552	36.549	45.147	1247
2400	2.146	34.763	3.23	144.2	42.4	1.972	27.784	36.986	45.778	2397
2799	1.916	34.750	3.47	154.9	45.3	1.709	27.794	37.011	45.816	2796
3299	1.714	34.739	3.65	162.9	47.4	1.463	27.803	37.035	45.853	3296
3799	1.496	34.729	4.00	178.6	51.6	1.198	27.814	37.060	45.893	3796
4299	1.396	34.722	4.14	184.8	53.3	1.047	27.819	37.074	45.914	4296
5170	1.380	34.719	4.27	190.6	54.9	0.929	27.824	37.086	45.933	5167

CDARWIN 25  
DATE: 8/1/87

STA: 60

LAT: 6° 9.0N  
TIME: 0406

LON: 52 31 0E

SONIC DEPTH: 5109 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.526	35.264	---	---	---	25.526	23.381	31.674	39.613	0.009	---	2
10	25.476	35.265	---	---	---	25.474	23.398	31.692	39.632	0.045	2.66	10
20	25.415	35.266	---	---	---	25.411	23.419	31.714	39.656	0.090	3.00	20
30	25.364	35.270	---	---	---	25.357	23.438	31.735	39.678	0.134	3.25	30
40	25.253	35.273	---	---	---	25.244	23.475	31.774	39.720	0.179	3.52	40
50	25.110	35.272	---	---	---	25.099	23.518	31.822	39.771	0.223	3.74	50
60	24.847	35.262	---	---	---	24.834	23.591	31.902	39.857	0.266	3.95	60
74	24.144	35.217	---	---	---	24.128	23.769	32.099	40.072	0.326	4.18	74
100	23.574	35.159	---	---	---	23.553	23.895	32.241	40.230	0.432	4.33	100
124	23.531	35.237	---	---	---	23.505	23.968	32.314	40.303	0.528	5.49	123
150	23.486	35.287	---	---	---	23.455	24.021	32.368	40.357	0.631	6.66	149
174	19.975	35.203	3.04	135.9	59.0	19.943	24.933	33.383	41.468	0.719	6.84	173
200	18.797	35.225	2.76	123.1	52.3	18.761	25.255	33.741	41.861	0.792	7.08	199
224	18.429	35.218	2.73	122.1	51.5	18.390	25.343	33.841	41.972	0.858	7.63	223
274	12.852	35.137	2.83	126.2	47.6	12.814	26.537	35.232	43.548	0.965	5.98	273
300	12.313	35.076	2.79	124.7	46.5	12.273	26.596	35.313	43.650	1.005	3.85	299
350	11.781	35.076	2.36	105.2	38.8	11.736	26.699	35.438	43.794	1.079	2.53	349
400	10.921	34.991	2.97	132.8	48.0	10.871	26.792	35.567	43.957	1.148	2.21	399
450	10.715	35.022	2.25	100.4	36.2	10.660	26.854	35.637	44.035	1.214	2.09	449
500	10.077	34.956	2.43	108.4	38.5	10.018	26.915	35.725	44.149	1.278	2.06	499
600	9.849	35.064	1.57	70.1	24.8	9.779	27.040	35.859	44.291	1.397	2.31	599
700	9.200	35.153	1.00	44.9	15.6	9.121	27.219	36.065	44.522	1.502	1.94	699
800	8.346	35.125	1.00	44.7	15.3	8.260	27.333	36.217	44.710	1.597	1.88	798
900	7.740	35.108	0.95	42.6	14.4	7.646	27.412	36.324	44.843	1.683	1.57	898
1000	6.988	35.026	1.15	51.4	17.0	6.889	27.455	36.404	44.957	1.764	1.36	998
1200	6.334	34.988	1.35	60.0	19.6	6.219	27.515	36.496	45.080	1.917	1.32	1198
1400	5.117	34.900	1.79	80.1	25.4	4.994	27.597	36.639	45.279	2.056	0.96	1398
1600	4.563	34.900	1.88	84.0	26.2	4.427	27.661	36.731	45.398	2.184	1.49	1598
1800	3.647	34.843	2.28	101.9	31.1	3.504	27.712	36.831	45.544	2.298	1.25	1798
2000	2.871	34.800	2.74	122.5	36.7	2.721	27.750	36.912	45.664	2.399	0.88	1998
2500	2.146	34.763	3.15	140.8	41.4	1.963	27.785	36.987	45.779	2.626	0.49	2497
3000	1.814	34.746	3.47	155.0	45.2	1.590	27.800	37.024	45.835	2.842	0.38	2997
3500	1.586	34.733	3.82	170.5	49.4	1.317	27.809	37.048	45.874	3.052	0.22	3497
4000	1.509	34.728	4.01	179.0	51.7	1.189	27.814	37.061	45.893	3.262	0.22	3997
4500	1.397	34.722	4.21	188.1	54.2	1.025	27.820	37.077	45.918	3.474	0.22	4497
5000	1.393	34.720	4.36	194.5	56.1	0.962	27.823	37.083	45.928	3.687	0.00	4996
5180	1.385	34.718	4.41	196.9	56.7	0.932	27.824	37.085	45.932	3.766	---	5176

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
48	25.126	35.272	4.60	205.4	97.7	25.115	23.513	31.817	39.765	48
399	10.931	34.997	2.96	132.1	47.8	10.882	26.795	35.569	43.959	398
748	9.322	35.254	0.76	33.9	11.9	9.236	27.279	36.119	44.570	746
1398	5.119	34.902	1.76	78.6	24.9	4.996	27.598	36.640	45.280	1396
1998	2.868	34.800	2.74	122.3	36.6	2.718	27.751	36.912	45.665	1996
2798	1.929	34.753	3.34	149.1	43.6	1.722	27.795	37.012	45.816	2795
3598	1.566	34.731	3.86	172.3	49.9	1.288	27.810	37.051	45.878	3595
4199	1.480	34.725	4.11	183.5	53.0	1.139	27.815	37.064	45.900	4195
5180	1.379	34.718	4.24	189.3	54.5	0.927	27.824	37.085	45.932	---

CDARWIN 25  
DATE: 8/1/87

STA: 61

TIME: 0821

LAT: 6° 1.0N

LOH: 52° 40.0E

SONIC DEPTH: 5109 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	25.650	35.271	---	---	---	25.649	23.349	31.639	39.575	0.018	---	4
10	25.591	35.271	---	---	---	25.589	23.368	31.659	39.596	0.045	2.70	10
20	25.467	35.270	---	---	---	25.463	23.406	31.700	39.640	0.090	2.97	20
30	25.387	35.271	---	---	---	25.380	23.432	31.728	39.671	0.135	3.16	30
40	25.245	35.273	---	---	---	25.236	23.477	31.777	39.723	0.179	3.36	40
50	25.002	35.289	---	---	---	24.991	23.549	31.855	39.807	0.223	3.63	50
60	24.668	35.252	---	---	---	24.655	23.638	31.954	39.914	0.266	3.74	60
74	24.336	35.229	---	---	---	24.320	23.721	32.046	40.014	0.325	4.00	74
100	23.862	35.187	---	---	---	23.841	23.831	32.169	40.150	0.433	3.66	100
124	23.547	35.190	---	---	---	23.521	23.928	32.274	40.263	0.531	3.32	123
150	23.215	35.304	---	---	---	23.184	24.112	32.467	40.463	0.633	2.73	149
158	23.130	35.308	3.27	146.0	67.1	23.098	24.141	32.497	40.496	0.664	---	157

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
2	25.647	35.271	4.84	216.1	103.7	25.646	23.350	31.639	39.575	---
9	25.603	35.270	4.74	211.6	101.5	25.601	23.363	31.654	39.591	8
18	25.474	35.269	4.81	214.7	102.7	25.470	23.403	31.697	39.637	18
29	25.388	35.271	4.62	206.3	98.5	25.382	23.431	31.728	39.670	29
41	25.247	35.273	4.65	207.6	98.9	25.238	23.477	31.777	39.722	40
68	24.412	35.234	4.27	190.6	89.6	24.397	23.702	32.024	39.991	68
93	23.953	35.190	4.30	192.0	89.4	23.933	23.807	32.142	40.120	93
118	23.692	35.180	4.24	189.3	87.8	23.667	23.878	32.220	40.205	117
159	23.141	35.307	3.77	168.3	77.4	23.108	24.137	32.493	40.491	---

CDARWIN 25  
DATE: 8/1/87

STA 62

LAT: 5° 54.0N  
TIME: 1046

LON: 52° 56.0E

SONIC DEPTH: 5109 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	25.715	35.257	---	---	---	25.715	23.318	31.606	39.541	0.009	---	2
10	25.642	35.255	---	---	---	25.640	23.340	31.630	39.566	0.045	2.75	10
20	25.378	35.256	---	---	---	25.374	23.423	31.719	39.662	0.090	2.94	20
30	25.221	35.255	---	---	---	25.215	23.470	31.771	39.718	0.135	2.95	30
40	24.961	35.246	---	---	---	24.952	23.543	31.851	39.804	0.179	2.97	40
50	24.867	35.240	---	---	---	24.856	23.568	31.878	39.834	0.222	2.99	50
60	24.626	35.225	---	---	---	24.613	23.630	31.947	39.908	0.265	3.11	60
74	24.393	35.212	---	---	---	24.377	23.691	32.014	39.982	0.325	3.49	74
100	24.298	35.200	---	---	---	24.277	23.712	32.038	40.008	0.434	4.56	100
124	24.226	35.217	---	---	---	24.200	23.748	32.076	40.048	0.536	5.85	123
150	22.123	35.210	---	---	---	22.093	24.353	32.739	40.765	0.638	7.23	149
174	21.330	35.509	2.67	119.2	53.1	21.296	24.802	33.207	41.251	0.718	8.38	173
224	16.178	35.154	3.11	138.7	56.0	16.142	25.834	34.408	42.810	0.855	7.29	223
250	14.059	35.132	3.16	140.9	54.5	14.023	26.285	34.935	43.208	0.907	5.68	249
274	13.032	35.132	2.93	131.0	49.6	12.994	26.497	35.185	43.495	0.947	4.39	273
300	12.580	35.148	2.52	112.5	42.2	12.539	26.600	35.306	43.631	0.987	3.64	299
350	11.661	35.086	2.51	112.1	41.2	11.616	26.730	35.472	43.833	1.061	2.71	349
400	11.852	35.239	1.44	64.5	23.8	11.800	26.814	35.547	43.899	1.129	2.47	399
450	11.344	35.230	1.26	56.3	20.6	11.287	26.903	35.657	44.028	1.194	2.33	449
500	10.781	35.191	1.39	62.1	22.4	10.719	26.976	35.754	44.147	1.255	2.18	499
600	10.191	35.223	1.08	48.1	17.1	10.118	27.106	35.909	44.325	1.369	1.85	599
700	9.590	35.221	0.89	39.8	14.0	9.509	27.208	36.036	44.477	1.474	1.90	699
800	8.982	35.228	0.86	38.5	13.4	8.892	27.315	36.170	44.635	1.571	1.85	798
900	8.377	35.209	0.87	38.8	13.3	8.279	27.396	36.278	44.769	1.659	1.64	898
1000	7.205	35.060	1.12	49.9	16.6	7.104	27.452	36.390	44.933	1.741	1.41	998
1200	6.485	35.005	1.26	56.2	18.4	6.369	27.509	36.482	45.059	1.896	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
99	24.297	35.203	4.44	198.2	92.9	24.276	23.715	32.041	40.011	99
163	22.114	35.609	2.71	121.0	54.7	22.081	24.659	33.041	41.063	163
248	14.088	35.132	3.11	138.8	53.7	14.052	26.279	34.927	43.200	247
323	12.371	35.145	2.47	110.3	41.2	12.328	26.639	35.353	43.686	322
398	11.918	35.246	1.52	67.9	25.1	11.866	26.806	35.537	43.886	397
599	10.199	35.224	1.09	48.7	17.4	10.127	27.105	35.908	44.324	597
849	8.756	35.243	0.89	39.7	13.7	8.661	27.363	36.228	44.703	848
999	7.217	35.063	1.14	50.9	17.0	7.116	27.452	36.390	44.932	997
1199	6.495	35.008	1.26	56.3	18.4	6.379	27.510	36.483	45.059	1198

CDARWIN 25  
DATE: 8/1/87

STA: 63

TIME: 1610

LAT: 6° 32.0N

LOX: 63° 18.0E

SONIC DEPTH: 5109 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	25.335	35.246	---	---	---	25.335	23.427	31.725	39.668	0.009	---	2
10	25.325	35.248	---	---	---	25.323	23.432	31.730	39.674	0.045	1.52	10
20	25.300	35.252	---	---	---	25.296	23.443	31.742	39.687	0.089	1.64	20
30	25.246	35.266	---	---	---	25.239	23.471	31.771	39.717	0.133	1.78	30
40	25.232	35.286	---	---	---	25.223	23.491	31.791	39.737	0.177	1.96	40
50	25.254	35.313	---	---	---	25.243	23.505	31.805	39.750	0.221	2.10	50
60	25.333	35.368	---	---	---	25.320	23.523	31.820	39.763	0.265	2.30	60
74	25.458	35.433	---	---	---	25.442	23.535	31.828	39.767	0.327	2.95	74
100	25.970	35.743	---	---	---	25.948	23.613	31.889	39.813	0.440	4.99	100
124	25.852	35.797	---	---	---	25.824	23.692	31.971	39.897	0.543	6.70	123
150	24.228	35.868	---	---	---	24.196	24.242	32.563	40.528	0.649	8.21	149
174	20.761	35.624	2.23	99.4	43.9	20.728	25.044	33.465	41.523	0.727	8.40	173
200	18.625	35.485	1.51	67.3	28.5	18.590	25.497	33.986	42.107	0.800	7.95	199
224	15.749	35.340	1.83	81.9	32.8	15.714	26.076	34.661	42.875	0.855	6.94	223
250	14.448	35.329	1.60	71.6	27.9	14.411	26.355	34.987	43.245	0.903	5.80	249
274	13.936	35.346	1.50	67.1	25.9	13.896	26.477	35.128	43.403	0.943	4.83	273
300	13.186	35.377	1.00	44.8	17.0	13.144	26.657	35.336	43.637	0.983	4.03	299
350	11.713	35.233	1.11	49.6	18.3	11.668	26.834	35.573	43.929	1.051	2.99	349
400	11.124	35.215	1.18	52.7	19.2	11.074	26.930	35.693	44.072	1.114	2.20	399
450	10.584	35.157	1.49	66.6	23.9	10.529	26.983	35.769	44.170	1.173	1.84	449
500	10.871	35.288	1.06	47.5	17.2	10.809	27.035	35.808	44.196	1.231	1.84	499
600	9.944	35.224	0.82	36.6	13.0	9.873	27.149	35.962	44.388	1.341	1.89	599
700	9.626	35.267	0.73	32.7	11.5	9.544	27.238	36.064	44.503	1.442	1.80	699
800	8.960	35.242	0.75	33.6	11.6	8.870	27.329	36.185	44.651	1.536	1.73	798
900	7.982	35.133	0.88	39.3	13.3	7.887	27.395	36.297	44.805	1.623	1.44	898
1000	7.323	35.060	1.06	47.4	15.8	7.221	27.435	36.368	44.906	1.705	1.26	998
1200	6.596	35.019	1.20	53.7	17.6	6.479	27.505	36.473	45.045	1.863	1.49	1198
1400	5.700	34.996	1.34	59.9	19.2	5.571	27.604	36.616	45.228	2.005	1.41	1398
1600	4.323	34.883	2.01	89.6	27.8	4.190	27.673	36.756	45.435	2.129	1.06	1598
1800	3.599	34.846	2.25	100.5	30.7	3.457	27.719	36.840	45.556	2.240	1.03	1798
2000	2.925	34.798	2.80	125.1	37.5	2.774	27.745	36.903	45.653	2.342	0.76	1998
2500	2.170	34.766	3.18	141.8	41.7	1.986	27.785	36.987	45.777	2.573	0.66	2497
3000	1.861	34.748	3.47	154.8	45.2	1.636	27.798	37.019	45.828	2.789	0.38	2997
3500	1.644	34.735	3.78	168.7	48.9	1.374	27.806	37.043	45.866	3.004	0.31	3497
4000	1.486	34.724	4.03	180.0	52.0	1.167	27.813	37.061	45.895	3.215	0.44	3997
4500	1.377	34.718	4.19	187.0	53.9	1.006	27.818	37.075	45.918	3.425	-0.22	4497
5000	1.377	34.715	4.27	190.4	54.9	0.947	27.820	37.080	45.926	3.638	-0.31	4996
5180	1.378	34.714	4.29	191.5	55.2	0.926	27.820	37.082	45.929	3.717	---	5176

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG 0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.253	35.299	4.78	213.4	101.7	25.242	23.495	31.795	39.740	49
123	25.862	35.791	4.59	204.9	99.0	25.835	23.684	31.963	39.889	122
749	9.280	35.259	0.71	31.7	11.1	9.194	27.290	36.131	44.584	747
999	7.319	35.058	1.05	46.9	15.7	7.218	27.434	36.367	44.905	998
1799	3.596	34.847	2.28	101.8	31.0	3.454	27.720	36.841	45.557	1797
2600	2.083	34.763	3.20	142.9	41.9	1.891	27.790	36.997	45.793	2597
3399	1.696	34.737	3.71	165.6	48.1	1.435	27.804	37.037	45.856	3396
4200	1.433	34.724	4.07	181.7	52.4	1.094	27.817	37.069	45.907	4197
5180	1.400	-	4.22	-	-	-	-	-	-	-



CDARWIN 26  
DATE: 8/1/87

STA: 64

LAT: 5° 16.0N  
TIME: 2149

LON: 53° 37.0E

SONIC DEPTH: 4806 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.479	35.850	---	---	---	26.479	23.526	31.788	39.699	0.009	---	2
10	26.484	35.853	---	---	---	26.482	23.527	31.790	39.700	0.044	1.86	10
20	26.481	35.851	---	---	---	26.476	23.528	31.790	39.701	0.087	2.03	20
30	26.463	35.848	---	---	---	26.456	23.532	31.795	39.706	0.131	2.32	30
40	26.395	35.837	---	---	---	26.386	23.546	31.811	39.723	0.175	2.57	40
50	26.227	35.807	---	---	---	26.216	23.577	31.846	39.763	0.218	2.80	50
60	25.861	35.791	---	---	---	25.848	23.680	31.958	39.884	0.261	3.03	60
74	25.823	35.798	---	---	---	25.806	23.698	31.978	39.904	0.320	3.48	74
100	25.644	35.844	---	---	---	25.622	23.790	32.074	40.004	0.429	4.67	100
124	25.208	35.782	---	---	---	25.181	23.879	32.175	40.117	0.528	6.68	123
150	24.055	35.841	---	---	---	24.023	24.273	32.598	40.568	0.629	8.66	149
174	20.256	35.692	1.80	80.6	35.2	20.223	25.155	33.591	41.665	0.706	8.78	173
200	17.581	35.440	1.38	61.7	25.6	17.547	25.721	34.244	42.398	0.773	7.80	199
224	14.998	35.287	1.89	84.2	33.2	14.964	26.202	34.815	43.054	0.822	6.32	223
250	13.791	35.306	1.62	72.1	27.8	13.755	26.476	35.133	43.413	0.868	5.52	249
274	12.956	35.307	1.45	64.7	24.5	12.918	26.648	35.337	43.646	0.905	4.56	273
300	12.488	35.351	1.00	44.8	16.8	12.448	26.776	35.482	43.808	0.942	3.78	299
350	11.712	35.322	1.02	45.4	16.8	11.667	26.903	35.641	43.996	1.006	2.55	349
400	10.737	35.172	1.44	64.2	23.1	10.688	26.966	35.746	44.141	1.066	1.98	399
450	10.713	35.240	1.06	47.4	17.1	10.658	27.025	35.805	44.200	1.124	1.86	449
500	10.632	35.295	0.90	40.4	14.5	10.571	27.083	35.866	44.263	1.180	1.84	499
600	9.848	35.238	0.89	39.6	14.0	9.777	27.177	35.993	44.423	1.285	1.73	599
700	9.523	35.276	0.73	32.7	11.5	9.442	27.262	36.093	44.535	1.385	1.81	699
800	8.767	35.239	0.73	32.6	11.3	8.678	27.357	36.221	44.695	1.476	1.60	799
900	8.080	35.173	0.86	38.6	13.1	7.984	27.413	36.309	44.813	1.561	1.44	898
1000	7.450	35.114	1.00	44.9	15.0	7.347	27.460	36.386	44.918	1.642	1.22	998
1198	6.581	35.036	1.18	52.5	17.2	6.464	27.521	36.489	45.061	1.795	---	1196

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
23	26.478	35.850	4.89	218.3	106.6	26.473	23.528	31.791	39.701	23
99	25.658	35.842	4.22	188.4	90.7	25.636	23.784	32.068	39.998	99
189	18.442	35.448	1.42	63.4	26.8	18.409	25.514	34.009	42.136	188
300	12.579	35.347	1.06	47.3	17.8	12.538	26.754	35.458	43.781	299
499	10.623	35.293	0.93	41.5	14.9	10.562	27.083	35.866	44.264	497
599	9.520	35.278	0.76	33.9	11.9	9.439	27.264	36.095	44.537	698
899	8.083	35.175	0.87	38.8	13.2	7.987	27.414	36.310	44.813	897
1050	6.983	35.046	1.16	51.8	17.2	6.879	27.472	36.421	44.974	1048
1200	6.629	35.036	1.19	53.1	17.5	6.512	27.514	36.480	45.050	---

SONIC DEPTH: 5063 m

TIME: 0210

[illegible]

CDARWIN 25  
DATE: 8/2/87

STA 66

TIME: 0921

LAT: 4 25.0N

LON: 54 36.0E

SONIC DEPTH: 4954 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	26.451	35.808	4.77	212.9	103.9	26.450	23.503	31.767	39.678	---
6	26.349	35.805	4.75	212.1	103.3	26.347	23.533	31.799	39.713	6
16	26.265	35.803	4.73	211.2	102.7	26.261	23.559	31.827	39.743	16
22	26.239	35.802	4.71	210.3	102.2	26.234	23.567	31.836	39.752	22
38	25.742	35.779	4.57	204.0	98.3	25.733	23.706	31.987	39.916	37
53	24.640	35.726	4.27	190.6	90.2	24.626	24.005	32.315	40.271	63
98	22.980	35.683	3.72	166.1	76.3	22.960	24.464	32.820	40.818	97
240	12.622	35.173	2.18	97.3	36.5	12.589	26.609	35.312	43.636	239
339	10.930	35.141	1.64	73.2	26.5	10.888	26.906	35.677	44.065	338

CDARWIN 25  
DATE: 8/ 2/87

STA: 67

LAT: 4° 26.0N  
TIME: 1225

LON: 64° 25' 0E

SONIC DEPTH: 4955 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
698	9.235	35.200	0.87	38.8	13.6	9.156	27.250	36.094	44.549	696
1400	5.629	34.988	1.41	62.9	20.2	5.501	27.606	36.622	45.238	1397
1996	2.877	34.796	2.78	124.1	37.2	2.727	27.747	36.908	45.660	1993
2498	2.156	---	3.24	144.6	17.3	---	---	---	---	---
2998	1.835	34.746	3.53	157.6	45.9	1.611	27.798	37.021	45.831	2994
3501	1.611	34.735	3.81	170.1	49.3	1.342	27.809	37.047	45.872	3497
3999	1.468	34.727	4.03	179.9	52.0	1.150	27.816	37.065	45.900	3995
4499	1.338	34.721	4.21	187.9	54.1	0.968	27.823	37.083	45.927	4495
4971	1.348	34.720	4.27	190.6	54.9	0.922	27.826	37.088	45.935	4967

CDARWIN 25  
DATE: 8/2/87

STA: 68

TIME: 1915

LAT: 3 57 ON

LON 66 10 0E

SONIC DEPTH: 4981 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG 0 kg/m3	SIG 2 kg/m3	SIG 4 kg/m3	Z m
9	26.232	35.793	4.99	222.8	108.3	26.230	23.562	31.831	39.748	9
198	13.428	35.277	2.05	91.5	35.0	13.400	26.527	35.198	43.491	198
349	11.024	35.124	1.77	79.0	28.7	10.981	26.876	35.644	44.028	348
448	10.257	35.092	1.69	75.4	26.9	10.203	26.989	35.790	44.205	447
549	10.023	35.145	1.29	67.6	20.4	9.958	27.073	35.883	44.307	548
748	9.093	35.196	0.94	42.0	14.6	9.008	27.271	36.121	44.582	746
899	8.240	35.180	0.80	35.7	12.2	8.143	27.394	36.283	44.780	897
1000	7.635	35.136	0.91	40.6	13.7	7.531	27.451	36.368	44.891	998
1201	6.295	35.025	1.23	54.9	17.9	6.181	27.549	36.531	45.116	1199

CDARWIN 25  
DATE: 8/ 2/87

STA: 69

TIME: 2318

LAT: 3° 37.0N

LON: 55° 32.0E

SONIC DEPTH: 5016 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	25.157	35.728	4.43	197.8	94.4	25.146	23.849	32.146	40.089	49
139	16.220	35.305	1.52	67.9	27.4	16.198	25.938	34.507	42.705	138
239	12.473	35.246	1.61	71.9	26.9	12.441	26.695	35.403	43.731	239
399	10.384	35.106	1.64	73.2	26.2	10.336	26.977	35.772	44.181	398
500	10.129	35.140	1.32	58.9	21.0	10.070	27.050	35.856	44.275	499
600	9.891	35.186	0.97	43.3	15.3	9.820	27.128	35.944	44.373	599
799	8.756	35.187	0.80	35.7	12.3	8.667	27.318	36.183	44.669	798
999	7.502	35.100	0.98	43.8	14.7	7.399	27.441	36.365	44.895	997
1199	6.179	35.001	1.29	57.6	18.7	6.066	27.545	36.533	45.123	---

CDARWIN 25  
DATE: 8/3/87

STA: 70

LAT: 3° 18.0N  
TIME: 0611

LON: 66° 56.0E

SONIC DEPTH: 4929 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
748	9.346	35.218	0.83	37.1	13.0	9.260	27.247	36.086	44.537	746
1149	6.802	35.057	1.07	47.8	15.8	6.689	27.507	36.465	45.026	1147
1499	4.660	34.896	1.93	86.2	27.0	4.533	27.646	36.711	45.374	1496
2250	2.423	34.776	3.18	142.0	42.0	2.257	27.771	36.958	45.734	2247
2999	1.829	---	---	---	---	---	---	---	---	---
3500	1.611	34.733	3.81	170.1	49.3	1.342	27.807	37.045	45.870	---
3998	1.489	34.726	4.02	179.5	51.9	1.170	27.814	37.062	45.895	---
4498	1.356	34.721	---	---	---	---	---	---	---	---
4982	1.355	34.718	4.27	190.6	54.9	0.928	27.824	37.085	45.932	---

CDARWIN 26  
DATE: 8/3/87

STA: 71

TIME: 0853

LAT: 3° 16.0N

LON: 66° 3.0E

SONIC DEPTH: 5016 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
-1	32.086	35.681	4.79	213.8	114.1	32.086	21.510	29.649	37.444	---
7	28.027	35.677	---	---	---	---	---	---	---	---
19	27.702	---	---	---	---	---	---	---	---	---
29	27.676	35.671	4.62	206.3	102.6	27.669	23.010	31.245	39.131	29
43	27.356	35.658	4.77	212.9	105.4	27.346	23.104	31.348	39.241	43
76	23.823	35.734	4.00	178.6	83.3	23.807	24.256	32.588	40.564	76
94	22.447	35.645	3.36	150.0	68.2	22.428	24.588	32.960	40.972	94
274	11.953	35.217	3.65	162.9	60.3	11.917	26.774	35.503	43.851	273
374	10.587	35.081	1.89	84.4	30.3	10.542	26.921	35.708	44.110	373



CDARWIN 25  
DATE: 8/3/87

STA: 72

TIME: 1322

LAT: 2° 50.0N

LON: 56° 26.0E

SONIC DEPTH: 4965 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	28.244	35.518	4.87	217.4	109.1	28.242	22.707	30.931	38.806	9
70	25.778	35.845	4.74	211.6	102.1	25.762	23.747	32.027	39.955	70
100	21.497	35.618	2.03	90.6	40.5	21.478	24.835	33.233	41.271	100
129	17.460	35.295	2.27	101.3	42.0	17.438	25.636	34.164	42.323	129
249	12.646	35.127	2.76	123.2	46.3	12.612	26.569	35.272	43.596	248
449	10.434	35.126	1.68	70.5	25.3	10.380	26.985	35.778	44.185	448
799	8.720	35.182	0.93	41.5	14.3	8.632	27.320	36.187	44.664	798
999	7.362	35.055	1.00	44.6	14.9	7.260	27.426	36.357	44.893	998
1201	6.684	35.042	1.12	50.0	16.4	6.467	27.525	36.493	45.055	1199

CDARWIN 25  
DATE: 8/3/87

STA: 73

TIME: 1931

LAT: 2° 24.0N

LON: 60° 56.0E

SONIC DEPTH: 4048 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
4	28.587	35.410	4.89	218.3	110.1	28.586	22.512	30.730	38.598	4
24	28.428	35.510	4.88	217.9	109.6	28.422	22.642	30.862	38.732	24
64	27.697	35.819	4.82	216.2	107.2	27.682	23.117	31.351	39.234	63
118	16.601	35.287	2.24	100.0	40.7	16.582	25.834	34.391	42.577	118
449	9.934	35.007	1.78	79.5	28.1	9.881	26.978	35.794	44.222	448
599	9.493	35.049	1.51	67.4	23.6	9.424	27.088	35.922	44.368	598
749	9.125	35.196	0.93	41.5	14.5	9.040	27.266	36.114	44.574	747
948	7.662	35.068	1.03	46.0	15.5	7.564	27.392	36.309	44.832	947
1199	6.376	34.987	1.31	58.5	19.1	6.261	27.509	36.488	45.069	1197

CDARWIN 25  
DATE: 8/4/87

STA: 74

LAT: 1° 58' 00" N  
TIME: 0231

LON: 57° 25' 00" E

SONIC DEPTH: 4495 m

PR	T	S	O2	O2	O2 SAT	THETA	SIG 0	SIG 2	SIG 4	Z
dbar	°C	PSU	ml/l	µM/kg	per	°	kg/m3	kg/m3	kg/m3	m
19		36.499	4.74	211.8						
349	11.184	36.037	2.37	105.8	38.5	11.140	26.779	35.542	43.921	348
698	9.458	35.127	1.14	50.9	17.8	9.377	27.156	35.992	44.439	697
1500	4.686	34.890	1.83	81.7	26.6	4.557	27.639	36.703	45.364	1498
2400	2.145	34.769	3.30	147.3	43.3	1.971	27.781	36.984	45.775	2397
2799	1.920	34.749	3.52	157.1	45.9	1.713	27.793	37.010	45.816	2796
3399	1.675	34.735	3.78	168.8	49.0	1.415	27.804	37.038	45.859	3396
4000	1.477	34.725	3.98	177.7	51.3	1.158	27.814	37.062	45.897	3997
4557	1.356	34.720	4.18	186.6	53.7	0.979	27.822	37.081	45.925	4554

CDARWIN 25  
DATE: 8/4/87

STA: 76

TIME: 0627  
LAT: 2° 8.0N

LON: 57° 34.0E

SONIC DEPTH: 4760 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	---	35.457	4.68	208.9	---	---	---	---	---	---
9	---	35.501	4.65	207.6	---	---	---	---	---	---
22	---	35.532	4.76	212.5	---	---	---	---	---	---
34	28.365	35.566	4.69	209.4	105.3	28.357	22.705	30.926	38.798	33
52	28.049	35.644	4.68	208.9	104.6	28.037	22.869	31.097	38.974	52
59	27.951	35.692	4.64	207.1	103.5	27.937	22.938	31.167	39.047	59
69	27.403	35.677	4.62	206.3	102.2	27.387	23.105	31.348	39.240	68
90	22.969	35.344	3.27	146.0	66.9	22.951	24.210	32.570	40.573	90
108	19.754	35.367	2.50	111.6	48.3	19.734	25.113	33.567	41.656	108

CDARWIN 25  
DATE: 8/4/87

STA: 76

TIME: 0915

LAT: 2° 23.0N

LON: 57° 48.0E

SONIC DEPTH: 4648 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
19	---	35.533	4.66	208.0	---	---	---	---	---	---
68	26.890	35.726	4.41	196.9	96.7	26.874	23.307	31.561	39.464	68
374	11.180	35.052	2.46	109.8	40.0	11.133	26.792	35.555	43.935	373
499	10.161	35.097	1.60	71.4	25.4	10.101	27.011	35.816	44.234	498
700	9.175	35.182	1.04	46.4	16.2	9.096	27.246	36.092	44.550	699
849	8.220	35.102	0.97	43.3	14.8	8.129	27.335	36.225	44.724	848
949	7.923	35.103	0.99	44.2	15.0	7.823	27.382	36.286	44.798	947
1049	7.325	35.091	1.10	49.1	16.4	7.218	27.460	36.392	44.930	1048
1200	6.591	35.035	1.26	56.3	18.5	6.474	27.518	36.486	45.058	---

CDARWIN 25  
DATE: 8/4/87

STA: 77

TIME: 1343

LAT: 2° 46.0N

LON: 58° 10.0E

SONIC DEPTH: 4934 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	13.453	35.540	4.67	204.0	78.1	13.452	26.720	35.385	43.673	---
74	27.810	35.946	4.51	201.3	100.5	27.792	23.176	31.406	39.286	74
149	16.130	35.266	2.25	100.4	40.5	16.106	25.920	34.502	42.704	149
249	12.656	35.122	2.79	124.6	46.8	12.622	26.563	35.266	43.589	248
350	11.606	35.091	2.34	104.5	38.4	11.561	26.743	35.489	43.851	349
573	9.818	35.122	1.31	58.5	20.7	9.751	27.09	35.910	44.342	572
698	9.387	35.207	0.87	38.8	13.6	9.307	27.231	36.068	44.517	697
898	7.954	35.088	1.01	45.1	15.3	7.859	27.364	36.267	44.778	897
1198	6.219	34.994	1.29	57.6	18.7	6.106	27.535	36.521	45.109	1196

CDARWIN 25  
DATE: 8/ 4/87

STA: 78

TIME: 1835

LAT: 3° 15.0N

LON: 58° 35.0E

SONIC DEPTH: 4632 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
29	---	35.554	4.75	212.1	---	---	---	---	---	---
69	28.125	35.973	4.82	215.2	108.0	28.109	23.093	31.315	39.188	68
108	21.969	35.529	2.35	104.9	47.3	21.948	24.636	33.022	41.049	108
199	13.886	35.184	2.66	118.8	45.8	13.857	26.360	35.015	43.293	198
349	11.211	35.125	1.81	80.8	29.4	11.167	26.843	35.604	43.980	348
449	10.335	35.092	1.54	68.8	24.6	10.281	26.976	35.773	44.185	448
699	9.258	35.166	0.99	44.2	15.4	9.178	27.220	36.063	44.518	697
848	8.343	35.122	0.88	39.3	13.4	8.251	27.332	36.217	44.710	847
1199	6.400	35.014	1.18	52.7	17.2	6.285	27.527	36.504	45.084	1198

CDARWIN 25  
DATE: 8/ 5/87

STA: 79

LAT: 3° 42.0N  
TIME: 0036

LON: 69° 00E

SONIC DEPTH: 4858 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	---	35.496	4.63	206.7	---	---	---	---	---	---
749	8.906	35.173	0.88	39.3	13.6	8.822	27.283	36.141	44.610	748
999	7.575	35.120	0.92	41.1	13.8	7.472	27.447	36.367	44.893	997
1999	3.020	34.807	2.72	121.4	36.5	2.868	27.743	36.896	45.641	1997
2400	2.220	34.767	3.20	142.9	42.1	2.044	27.781	36.980	45.767	2397
2799	1.923	34.752	3.46	154.5	45.1	1.716	27.795	37.012	45.817	2796
3399	1.656	34.736	3.76	167.9	48.7	1.396	27.806	37.041	45.863	3396
4000	1.454	34.727	4.01	179.0	51.7	1.136	27.817	37.067	45.902	3997
4933	---	34.722	4.16	185.7	---	---	---	---	---	---



SONIC DEPTH 4571 m

[illegible]

CDARWIN 25  
DATE: 8/ 5/87

STA: 81

TIME: 0955

LAT: 4° 16.0N

LON: 59° 29.0E

SONIC DEPTH: 4494 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	---	35.571	4.60	205.4	---	---	---	---	---	---
49	28.152	35.824	4.57	204.0	102.4	28.140	22.971	31.194	39.068	49
80	27.015	35.235	4.14	184.8	90.7	26.997	22.898	31.155	39.060	79
149	16.685	35.298	1.37	61.2	24.9	16.661	25.824	34.378	42.562	148
250	12.402	35.151	2.11	94.2	35.2	12.369	26.636	35.348	43.680	249
399	10.701	35.046	2.15	96.0	34.6	10.652	26.874	35.657	44.055	398
700	9.614	35.180	0.99	44.2	15.6	9.533	27.172	36.000	44.440	698
898	8.531	35.201	0.77	34.4	11.8	8.432	27.366	36.242	44.726	897
1200	6.111	35.005	1.29	57.6	18.7	5.996	27.557	36.548	45.141	1198

SONIC DEPTH: 4209 m

[illegible]

CDARWIN 25  
DATE: 9/ 6/87

STA: 83

LAT: 5° 12.0N  
TIME: 0300

LON: 60° 20.0E

SONIC DEPTH: 3682 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
69	27.787	36.290	4.57	204.0	102.0	27.771	23.442	31.669	39.646	68
129	18.094	35.377	0.96	42.9	18.0	18.072	25.544	34.050	42.189	128
299	12.056	35.155	2.01	89.7	33.3	12.017	26.707	35.433	43.778	298
499	10.415	35.103	1.52	67.9	24.3	10.355	26.971	35.766	44.174	498
699	9.611	35.201	0.80	35.7	12.6	9.530	27.189	36.017	44.457	698
799	9.131	35.202	0.71	31.7	11.0	9.040	27.270	36.119	44.579	797
948	8.077	35.148	0.74	33.0	11.2	7.976	27.394	36.291	44.796	947
1098	6.768	35.057	0.99	44.2	14.6	6.660	27.511	36.470	45.032	1097
1200	6.245	35.023	1.17	52.2	17.0	6.131	27.554	36.539	45.125	1198

CDARWIN 25  
DATE: 8/ 6/87

STA: 84

LAT: 5° 28.0N  
TIME: 0601

LON: 60 32 0E

SONIC DEPTH: 3621 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
depth	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	---	35.683	4.67	208.5	---	---	---	---	---	---
13	---	35.681	4.70	209.8	---	---	---	---	---	---
29	28.474	35.938	4.70	209.8	105.9	28.467	22.948	31.163	39.028	---
45	28.296	35.996	4.70	209.8	105.6	28.285	23.052	31.270	39.139	45
69	27.772	36.244	4.62	206.3	103.1	27.756	23.413	31.640	39.518	69
79	27.575	36.275	4.50	200.9	100.1	27.557	23.501	31.733	39.615	78
90	26.510	36.162	4.09	182.6	89.3	26.490	23.758	32.017	39.924	89
99	24.994	36.000	3.19	142.4	67.9	24.972	24.108	32.406	40.350	99
119	19.890	35.369	1.34	59.8	25.9	19.868	25.079	33.629	41.615	119

CDARWIN 25  
DATE: 8/ 6/87

STA: 86

LAT: 5° 34.0N  
TIME: 0917

LON: 60 42.0E

SONIC DEPTH: 2995 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	---	35.654	4.78	213.4	---	---	---	---	---	---
79	27.879	35.191	4.72	210.7	104.9	27.861	22.586	30.823	38.709	---
139	17.876	35.340	1.40	62.6	26.1	17.852	25.570	34.084	42.229	---
799	9.189	35.223	0.75	33.5	11.7	9.098	27.277	36.124	44.581	798
1200	6.022	35.012	1.34	59.8	19.4	5.910	27.574	36.569	45.166	1199
1799	3.436	34.828	2.50	111.6	33.9	3.295	27.720	36.850	45.574	1798
2200	2.496	34.783	3.06	136.6	40.5	2.334	27.771	36.953	45.725	2198
2599	2.041	34.758	3.35	149.6	43.8	1.850	27.790	36.999	45.797	2597
3010	1.835	34.748	3.52	157.1	45.8	1.609	27.800	37.023	45.833	---

CDARWIN 25  
DATE: 8/ 6/87

STA: 86

TIME: 1502

LAT: 6 0.0N

LON: 61 6.0E

SONIC DEPTH: 2780 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
68	28.106	36.534	4.81	214.7	108.1	28.090	23.521	31.738	39.606	---
149	18.658	35.453	1.24	65.4	23.5	18.632	25.462	33.949	42.070	149
269	12.538	35.191	1.94	86.6	32.5	12.502	26.641	35.347	43.674	269
800	9.199	35.228	0.63	28.1	9.8	9.108	27.280	36.125	44.582	799
1199	6.195	35.022	1.17	52.2	17.0	6.082	27.560	36.547	45.136	1197
1598	4.380	34.390	1.93	86.2	26.8	4.246	27.673	36.762	45.429	1596
2099	2.596	34.787	2.92	130.4	38.8	2.441	27.765	36.941	45.708	2096
2498	2.056	34.760	3.27	146.0	42.8	1.874	27.789	36.997	45.794	2496
2713	2.019	34.757	3.29	146.9	43.0	1.818	27.791	37.002	45.802	2711

CDARWIN 25  
DATE: 8/ 6/87

STA: 87

LAT: 6° 30.0N  
TIME: 2110

LON: 61° 32.0E

SONIC DEPTH: 3586 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
70	27.997	36.418	4.71	210.3	105.6	27.980	23.470	31.691	39.562	70
148	18.004	35.385	1.31	58.5	24.5	17.979	25.573	34.082	42.224	148
209	14.592	35.283	1.66	74.1	29.0	14.561	26.287	34.915	43.168	209
800	8.998	35.227	0.68	30.4	10.5	8.908	27.311	36.166	44.630	799
1498	4.950	34.933	1.70	75.9	23.9	4.819	27.643	36.693	45.342	1497
2000	3.002	34.810	2.67	119.2	35.8	2.850	27.747	36.901	45.647	1998
2598	2.015	34.759	3.28	146.4	42.9	1.825	27.792	37.003	45.802	2596
3100	1.796	34.745	3.47	154.9	45.1	1.563	27.801	37.027	45.839	3097
3616	1.769	34.741	3.54	158.0	46.0	1.484	27.804	37.034	45.851	3613



CDARWIN 25  
DATE: 8/7/87

STA: 88

TIME: 0400

LAT: 7° 0.0N

LON: 61° 59.0E

SONIC DEPTH: 3469 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	27.941	36.453	4.74	211.6	106.2	27.929	23.513	31.735	39.606	---
148	17.688	35.485	0.46	20.5	8.6	17.663	25.728	34.245	42.396	148
300	12.269	35.191	1.34	59.8	22.3	12.229	26.694	35.411	43.748	299
799	8.882	35.203	0.53	23.7	8.2	8.793	27.311	36.171	44.640	797
1299	5.811	35.000	1.29	57.6	18.6	5.691	27.592	36.598	45.205	---
1899	3.172	34.818	2.53	112.9	34.1	3.026	27.737	36.882	45.619	---
2498	2.220	34.769	3.11	138.8	40.9	2.035	27.784	36.983	45.771	---
3098	1.762	34.744	3.45	154.0	44.8	1.530	27.803	37.030	45.845	---
3506	1.684	34.737	3.57	159.4	46.3	1.412	27.806	37.040	45.860	---

CDARWIN 25  
DATE: 8/7/87

STA: 89

TIME: 0635

LAT: 7° 2.0N

LON: 62° 0.0E

SONIC DEPTH: 3489 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
1	---	36.269	4.66	208.0	---	---	---	---	---	---
12	---	36.272	4.57	204.0	---	---	---	---	---	---
29	---	36.448	4.69	209.4	---	---	---	---	---	---
46	28.413	36.442	4.62	206.3	104.3	28.402	23.349	31.560	39.421	46
69	27.931	36.484	4.66	208.0	104.4	27.915	23.541	31.763	39.634	68
79	27.910	36.493	4.57	204.0	102.4	27.891	23.556	31.777	39.650	79
89	27.642	36.541	4.59	204.9	102.4	27.621	23.680	31.908	39.785	88
99	24.809	36.153	2.67	119.2	56.7	24.788	24.279	32.581	40.528	99
120	19.947	35.647	0.50	22.3	9.7	19.925	25.277	33.721	41.802	120

CDARWIN 25  
DATE: 8/7/87

STA: 90

TIME: 1122

LAT: 7° 25.0N

LON 62 20 0E

SONIC DEPTH: 4092 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	28.286	36.397	4.85	216.5	109.2	28.274	23.358	31.571	39.437	49
149	17.399	35.376	0.43	19.2	7.9	17.374	25.714	34.243	42.403	149
298	12.384	35.196	1.32	58.9	22.0	12.344	26.675	35.388	43.720	298
699	9.220	35.168	0.52	23.2	8.1	9.141	27.227	36.072	44.528	698
1499	4.693	34.914	1.75	78.1	24.5	4.565	27.657	36.720	45.381	1498
2299	2.477	34.780	2.98	133.0	39.4	2.306	27.771	36.954	45.728	2297
2799	1.971	34.754	3.35	149.6	43.8	1.763	27.793	37.007	45.810	2798
3299	1.696	34.741	3.55	158.5	46.0	1.445	27.806	37.039	45.857	3297
4150	1.650	34.734	3.64	162.5	47.2	1.310	27.810	37.050	45.876	---

CDARWIN 25  
DATE: 8/7/87

STA: 91

TIME: 1851

LAT: 7° 46.0N

LON: 62° 40.0E

SONIC DEPTH: 4597 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG 0 kg/m3	SIG 2 kg/m3	SIG-4 kg/m3	Z m
50	28.023	36.387	4.66	208.0	104.5	28.011	23.437	31.657	39.528	50
148	18.116	35.416	0.44	19.6	8.2	18.090	25.569	34.074	42.212	147
350	11.795	35.219	1.22	54.5	20.1	11.749	26.808	35.543	43.897	349
698	9.369	35.194	0.55	24.6	8.6	9.289	27.223	36.062	44.512	697
1301	5.798	34.992	1.29	57.6	18.5	5.678	27.587	36.594	45.202	1299
2100	2.646	34.788	2.90	129.5	38.5	2.490	27.761	36.935	45.699	2090
2600	2.083	34.760	3.24	144.6	42.4	1.891	27.788	36.995	45.791	2598
3098	1.856	34.747	3.43	153.1	44.7	1.621	27.798	37.020	45.830	3095
4654	1.696	34.733	3.72	166.1	48.2	1.297	27.810	37.051	45.878	4652

CDARWIN 25  
DATE: 8/ 8/87

STA: 92

TIME: 0246

LAT: 8 8.0N

LON 62 59 0E

SONIC DEPTH: 4540 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG 0 kg/m3	SIG 2 kg/m3	SIG-4 kg/m3	Z m
-1	---	35.823	4.76	212.5	---	---	---	---	---	---
48	28.335	36.245	4.68	208.9	105.4	28.323	23.227	31.441	39.307	---
149	19.726	35.461	0.42	18.8	8.1	19.699	25.194	33.647	41.737	148
299	12.193	35.225	1.08	48.2	17.9	12.153	26.735	35.455	43.793	298
699	9.357	35.183	0.49	21.9	7.7	9.277	27.217	36.056	44.506	698
1499	4.693	34.916	1.71	76.3	23.9	4.565	27.658	36.722	45.382	---
2100	2.671	34.789	2.83	126.3	37.6	2.515	27.760	36.932	45.695	---
2899	1.922	34.752	3.36	150.0	43.8	1.705	27.796	37.013	45.819	---
3599	1.665	34.736	3.59	160.3	46.5	1.384	27.807	37.042	45.865	---

CDARWIN 25  
DATE: 8/8/87

STA: 93

TIME: 0700

LAT: 8° 14.0N

LON: 63° 5.0E

SONIC DEPTH: 4648 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
14	---	35.807	4.64	207.1	---	---	---	---	---	---
34	---	35.993	4.72	210.7	---	---	---	---	---	---
53	28.302	35.984	4.57	204.0	102.7	28.290	23.042	31.260	39.129	---
80	28.236	36.438	4.71	210.3	106.0	28.217	23.407	31.622	39.488	---
100	27.899	36.486	4.59	204.9	102.8	27.876	23.556	31.778	39.651	99
110	26.450	36.293	3.77	168.3	82.3	26.425	23.877	32.136	40.043	109
120	24.760	36.130	2.91	129.9	61.7	24.725	24.281	32.585	40.534	119
139	20.763	35.514	0.54	24.1	10.6	20.736	24.958	33.380	41.439	139

CDARWIN 26  
DATE: 8/8/87

STA: 94

TIME: 1059

LAT: 8° 30.0N

LOD: 63° 20.0E

SONIC DEPTH: 4581 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG 0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
49	28.298	35.984	4.75	212.1	106.8	28.286	23.043	31.261	39.130	---
158	16.978	35.294	0.33	14.7	6.0	16.952	25.752	34.296	42.471	158
299	12.464	35.223	1.17	52.2	19.6	12.424	26.681	35.390	43.719	299
699	9.629	35.210	0.50	22.3	7.9	9.548	27.193	36.020	44.459	697
1799	3.525	34.846	2.26	100.9	30.7	3.384	27.726	36.651	45.570	1797
2497	2.183	34.768	3.12	139.3	41.0	1.999	27.786	36.987	45.777	2495
2999	1.856	34.746	3.41	152.2	44.4	1.631	27.797	37.018	45.828	2996
3398	1.746	34.741	3.55	158.5	46.1	1.484	27.804	37.034	45.850	3395
4641	1.636	34.730	3.80	169.6	49.2	1.240	27.812	37.056	45.886	4638

CDARWIN 25  
DATE: 8/8/87

STA: 96

TIME: 1643

LAT: 8° 50.0N

LOD: 63° 38.0E

SONIC DEPTH: 4556 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	---	36.221	4.95	221.0	---	---	---	---	---	---
109	23.907	36.028	2.44	108.9	51.0	23.884	24.456	32.783	40.754	109
158	17.244	35.414	0.36	16.1	6.6	17.218	25.781	34.315	42.479	158
290	12.479	35.218	1.14	50.9	19.1	12.440	26.674	35.382	43.711	289
400	11.495	35.256	0.83	37.1	13.6	11.444	26.894	35.641	44.006	399
549	10.617	35.251	0.61	27.2	9.8	10.450	27.070	35.859	44.261	548
699	9.510	35.197	0.48	21.4	7.5	9.429	27.203	36.035	44.479	698
948	8.071	35.125	0.65	29.0	9.9	7.970	27.377	36.275	44.780	947
1199	6.733	35.079	0.91	40.6	13.4	6.615	27.534	36.495	45.059	1198



CDARWIN 25  
DATE 8/8/87

STA: 96

TIME: 2207

LAT: 9° 15.0N

LON: 64° 0 0E

SONIC DEPTH: 4510 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	27.701	36.353	4.86	217.0	108.4	27.690	23.516	31.744	39.623	---
188	16.647	35.456	0.04	1.8	0.7	16.616	25.956	34.509	42.693	188
280	12.801	35.236	1.16	51.8	19.6	12.763	26.624	35.320	43.636	279
700	9.489	35.200	0.50	22.3	7.8	9.408	27.208	36.042	44.486	699
1699	3.919	34.878	1.97	87.9	27.0	3.782	27.712	36.816	45.514	1697
2400	2.245	34.774	3.00	133.9	39.5	2.069	27.785	36.982	45.768	2398
2699	1.935	34.756	3.23	144.2	42.2	1.737	27.797	37.012	45.816	2696
3200	1.746	34.743	3.54	158.0	46.0	1.504	27.804	37.032	45.848	3197
4569	1.604	34.730	3.81	170.1	49.3	1.217	27.814	37.059	45.890	---

CDARWIN 25  
DATE: 8/9/87

STA: 97

LAT: 9° 40.0N  
TIME: 0410

LON: 64° 22 OE

SONIC DEPTH: 4454 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
48	28.014	36.520	4.74	211.6	106.4	28.003	23.540	31.758	39.628	---
178	15.976	35.438	0.03	1.3	0.5	15.948	26.097	34.674	42.879	178
298	12.566	35.260	1.06	47.3	17.8	12.526	26.690	35.394	43.719	298
499	11.109	35.276	0.76	33.9	12.3	11.046	26.983	35.746	44.126	499
599	10.820	35.328	0.51	22.8	8.2	10.745	27.078	35.853	44.243	598
698	10.328	35.369	0.31	13.8	5.0	10.243	27.199	35.994	44.403	697
799	9.568	35.317	0.44	19.6	6.9	9.475	27.289	36.118	44.558	798
999	8.068	35.206	0.54	24.1	8.2	7.961	27.442	36.339	44.843	998
1199	6.525	35.056	0.91	40.6	13.3	6.409	27.544	36.515	45.089	---

CDARWIN 25  
DATE: 8/9/87

STA: 38

TIME: 0627

LAT: 9° 45.0N

LON: 64° 27.0E

SONIC DEPTH: 4454 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
1	---	35.530	4.75	212.1	---	---	---	---	---	---
11	28.481	35.528	4.71	210.3	105.9	28.478	22.636	30.855	38.724	---
27	28.453	35.527	4.72	210.7	106.1	28.447	22.646	30.866	38.736	---
42	28.053	35.520	4.79	213.8	107.0	28.043	22.774	31.003	38.881	---
63	27.837	35.521	4.76	212.5	105.9	27.822	22.847	31.081	38.964	---
79	27.722	35.518	4.67	208.5	103.7	27.703	22.883	31.120	39.006	---
88	27.664	35.514	4.68	204.5	101.6	27.643	22.900	31.138	39.026	---
98	27.238	35.475	4.15	185.3	91.4	27.215	23.009	31.257	39.155	---
159	18.009	35.531	0.04	1.8	0.7	17.982	25.684	34.191	42.331	159

CDARWIN 25  
DATE: 8/9/87

STA: 99

TIME: 1010

LAT: 10° 0.0N

LON: 64° 40.0E

SONIC DEPTH: 4433 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
68	27.739	36.516	4.71	210.3	105.2	27.723	23.628	31.854	39.729	---
180	16.240	35.426	0.07	3.1	1.3	16.211	26.028	34.595	42.792	179
298	12.679	35.290	0.99	44.2	16.6	12.638	26.691	35.390	43.711	298
799	9.491	35.322	0.42	18.8	6.6	9.398	27.306	36.137	44.581	798
1699	3.993	34.890	1.89	84.4	26.0	3.855	27.714	36.814	45.509	1697
2199	2.514	34.790	2.84	126.8	37.6	2.351	27.775	36.956	45.727	2197
2599	2.022	34.761	3.04	135.7	39.8	1.832	27.794	37.004	45.802	2596
3200	1.746	34.743	3.52	157.1	45.7	1.504	27.804	37.032	45.848	3197
4493	1.641	34.731	3.69	164.7	47.8	1.262	27.811	37.054	45.883	---

CDARWIN 25  
DATE: 8/9/87

STA: 100

TIME: 1643

LAT: 10 30 ON

LON: 64 25 OE

SONIC DEPTH: 4398 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	28.407	36.492	---	---	---	28.406	23.385	31.595	39.456	0.009	---	2
10	28.409	36.492	---	---	---	28.407	23.385	31.595	39.456	0.045	1.88	10
20	28.409	36.492	---	---	---	28.404	23.386	31.596	39.457	0.090	2.46	20
30	28.361	36.493	---	---	---	28.354	23.403	31.614	39.477	0.135	3.22	30
40	28.292	36.498	---	---	---	28.282	23.431	31.644	39.507	0.180	3.57	40
50	28.259	36.503	---	---	---	28.247	23.447	31.660	39.525	0.224	4.57	50
60	28.134	36.492	---	---	---	28.120	23.480	31.696	39.564	0.269	5.36	60
74	27.884	36.486	---	---	---	27.867	23.558	31.781	39.654	0.330	6.01	74
100	25.440	36.332	---	---	---	25.418	24.222	32.505	40.435	0.438	8.43	100
124	21.687	35.892	---	---	---	21.663	24.992	33.382	41.412	0.518	8.91	123
150	19.098	35.541	---	---	---	19.071	25.418	33.890	41.997	0.592	7.96	149
174	17.667	35.538	0.23	10.5	4.4	17.637	25.774	34.292	42.443	0.650	6.25	173
200	16.372	35.525	0.30	13.5	5.5	16.340	26.073	34.635	42.826	0.705	5.36	199
224	14.799	35.382	0.53	23.8	9.3	14.765	26.319	34.938	43.183	0.750	5.00	223
250	14.011	35.359	0.67	29.8	11.5	13.975	26.470	35.119	43.391	0.794	4.28	249
274	13.415	35.348	0.74	32.9	12.6	13.376	26.587	35.257	43.551	0.832	3.70	273
300	12.879	35.325	0.83	37.2	14.1	12.838	26.678	35.370	43.682	0.870	3.26	299
350	12.156	35.311	0.83	37.1	13.8	12.109	26.810	35.531	43.870	0.939	2.65	349
400	11.745	35.309	0.66	29.6	10.9	11.693	26.888	35.625	43.980	1.004	2.14	399
450	11.419	35.305	0.69	30.8	11.3	11.361	26.947	35.697	44.064	1.066	1.95	449
500	11.158	35.317	0.58	25.7	9.4	11.095	27.006	35.767	44.144	1.125	1.91	499
600	10.624	35.333	0.29	12.9	4.7	10.550	27.116	35.899	44.297	1.238	1.85	599
700	9.973	35.315	0.31	13.7	4.9	9.890	27.217	36.028	44.452	1.343	1.89	699
800	9.519	35.344	0.34	15.0	5.3	9.426	27.318	36.148	44.590	1.439	1.66	799
900	8.775	35.272	0.39	17.5	6.0	8.674	27.384	36.248	44.722	1.529	1.54	898
1000	8.039	35.204	0.50	22.3	7.6	7.932	27.445	36.343	44.849	1.614	1.57	998
1200	6.826	35.106	0.80	35.8	11.8	6.707	27.543	36.499	45.059	1.768	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
49	28.261	36.503	---	---	---	28.249	23.445	31.659	39.523	49
174	17.673	35.538	0.25	11.2	4.6	17.643	25.773	34.291	42.441	173
298	12.904	35.331	0.73	32.6	12.3	12.863	26.678	35.368	43.680	297
399	11.750	35.308	0.69	30.8	11.4	11.698	26.886	35.623	43.978	398
498	11.156	35.314	0.59	26.3	9.6	11.093	27.004	35.764	44.142	497
624	10.497	35.329	0.23	10.3	3.7	10.420	27.136	35.925	44.328	623
800	9.516	35.342	0.30	13.4	4.7	9.423	27.317	36.148	44.590	798
1000	8.035	35.205	0.47	21.0	7.1	7.928	27.446	36.344	44.850	998
1198	6.834	35.106	0.78	34.8	11.5	6.715	27.542	36.498	45.057	1197

CDARWIN 26  
DATE: 8/9/87

STA: 101  
TIME: 2340

LAT: 11° 15.0N

LOX: 64° 0.0E

SONIC DEPTH: 4311 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
8	28.250	36.502	---	---	---	28.248	23.445	31.658	39.523	0.035	---	8
10	28.251	36.502	---	---	---	28.249	23.445	31.658	39.523	0.044	1.96	10
20	28.263	36.502	---	---	---	28.248	23.445	31.658	39.523	0.088	2.19	20
30	28.264	36.502	---	---	---	28.247	23.446	31.659	39.524	0.133	2.42	30
40	28.178	36.501	---	---	---	28.169	23.471	31.686	39.552	0.177	2.61	40
50	27.807	36.484	---	---	---	27.795	23.580	31.805	39.679	0.221	2.74	50
60	27.741	36.494	---	---	---	27.727	23.611	31.836	39.712	0.264	3.35	60
74	27.702	36.505	---	---	---	27.685	23.632	31.858	39.735	0.324	4.54	74
100	27.475	36.506	---	---	---	27.452	23.709	31.941	39.822	0.435	6.89	100
150	22.012	35.932	---	---	---	21.982	24.933	33.313	41.334	0.622	8.66	149
174	18.812	35.704	0.67	29.7	12.7	18.781	25.616	34.096	42.209	0.688	7.83	173
200	15.316	35.484	0.15	6.6	2.7	16.284	26.056	34.620	42.813	0.744	6.58	199
224	14.843	35.408	0.16	7.0	2.8	14.809	26.330	34.947	43.190	0.788	5.44	223
250	14.096	35.403	0.35	15.8	6.1	14.059	26.487	35.132	43.400	0.832	4.28	249
274	13.692	35.425	0.66	29.3	11.3	13.653	26.589	35.249	43.531	0.870	3.62	273
300	13.383	35.442	0.38	16.9	6.4	13.341	26.667	35.338	43.631	0.908	3.09	299
350	12.621	35.382	0.39	17.2	6.5	12.573	26.775	35.476	43.798	0.978	2.40	349
400	12.122	35.355	0.38	17.1	6.3	12.069	26.853	35.574	43.914	1.045	2.12	399
450	11.726	35.337	0.40	18.0	6.6	11.667	26.915	35.652	44.008	1.108	2.14	449
500	11.463	35.365	0.27	12.1	4.4	11.399	26.987	35.735	44.100	1.169	2.11	499
600	10.785	35.360	0.17	7.6	2.8	10.710	27.109	35.885	44.276	1.283	1.90	599
700	10.057	35.324	0.21	9.5	3.4	9.973	27.210	36.017	44.438	1.388	1.81	699
800	9.456	35.300	0.25	11.3	4.0	9.363	27.294	36.128	44.573	1.486	1.73	799
900	8.604	35.230	0.37	16.5	5.7	8.505	27.378	36.250	44.731	1.577	1.59	898
1000	8.029	35.209	0.48	21.5	7.3	7.922	27.450	36.348	44.854	1.661	1.60	998
1200	6.583	35.087	0.81	35.9	11.8	6.466	27.560	36.528	45.099	1.813	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
80	27.675	36.528	4.74	211.6	105.8	27.656	23.659	31.886	39.763	79
199	16.310	35.409	0.03	1.3	0.5	16.278	25.999	34.564	42.759	198
299	13.378	35.424	0.36	16.1	6.1	13.336	26.654	35.325	43.619	299
399	12.120	35.334	0.49	21.9	8.1	12.067	26.836	35.558	43.898	398
499	11.464	35.362	0.26	11.6	4.3	11.400	26.984	35.732	44.097	498
599	10.790	35.372	0.20	8.9	3.2	10.715	27.117	35.893	44.284	598
799	9.476	35.321	0.26	11.6	4.1	9.383	27.307	36.140	44.584	797
999	8.034	35.231	0.53	23.7	8.0	7.927	27.467	36.364	44.870	997
1201	6.595	35.096	0.81	36.2	11.9	6.478	27.566	36.533	45.103	---

CDARWIN 25  
DATE: 8/10/87

STA: 102

TIME: 0430

LAT: 11° 46.0N

LON 63° 51.0E

SONIC DEPTH 4275 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	28.109	35.468	---	---	---	28.108	23.466	31.683	39.551	0.009	---	2
10	28.100	35.468	---	---	---	28.098	23.469	31.686	39.555	0.044	1.86	10
20	28.097	35.468	---	---	---	28.092	23.471	31.689	39.557	0.088	2.03	20
30	28.096	35.469	---	---	---	28.089	23.472	31.690	39.558	0.133	2.32	30
40	28.020	35.478	---	---	---	28.010	23.505	31.724	39.594	0.177	2.89	40
50	27.841	35.514	---	---	---	27.829	23.592	31.815	39.688	0.220	3.50	50
60	27.806	35.517	---	---	---	27.792	23.606	31.830	39.704	0.263	4.25	60
74	27.761	35.529	---	---	---	27.744	23.631	31.856	39.731	0.323	5.42	74
100	27.359	35.497	---	---	---	27.336	23.740	31.974	39.859	0.434	7.26	100
124	24.239	35.218	---	---	---	24.213	24.502	32.818	40.779	0.527	8.15	123
150	20.684	35.775	---	---	---	20.656	25.179	33.600	41.659	0.608	7.99	149
174	18.947	35.678	0.34	15.3	6.5	18.916	25.562	34.037	42.147	0.672	7.23	173
200	16.392	35.404	0.04	1.6	0.6	16.360	25.976	34.539	42.731	0.731	6.18	199
224	15.369	35.361	0.06	2.5	1.0	15.334	26.177	34.776	43.002	0.779	5.32	223
250	14.132	35.283	0.23	10.4	4.0	14.095	26.386	35.031	43.300	0.826	4.50	249
274	13.509	35.261	0.34	15.4	5.9	13.470	26.500	35.169	43.460	0.866	3.89	273
300	13.014	35.259	0.31	13.8	5.2	12.972	26.600	35.288	43.596	0.906	3.46	299
350	12.735	35.380	0.38	16.7	6.3	12.687	26.751	35.448	43.765	0.978	2.96	349
400	12.047	35.365	0.27	12.1	4.5	11.994	26.874	35.598	43.941	1.045	2.44	399
450	11.669	35.356	0.23	10.3	3.8	11.611	26.940	35.679	44.037	1.107	1.96	449
500	11.406	35.359	0.23	10.5	3.8	11.342	26.993	35.743	44.110	1.167	1.88	499
600	10.646	35.321	0.22	9.7	3.5	10.672	27.103	35.886	44.283	1.281	1.90	599
700	9.985	35.307	0.22	10.0	3.6	9.901	27.209	36.020	44.443	1.387	1.89	699
800	9.505	35.333	0.27	11.9	4.2	9.412	27.312	36.143	44.586	1.484	1.74	799
900	9.089	35.345	0.34	15.0	5.2	8.986	27.391	36.240	44.700	1.574	1.55	898
1000	8.450	35.298	0.40	17.7	6.1	8.340	27.456	36.335	44.822	1.658	1.52	998
1200	6.910	35.137	0.69	30.9	10.2	6.790	27.556	36.508	45.064	1.812	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
11	28.100	35.469	4.96	217.0	109.2	28.097	23.470	31.687	39.555	11
27	28.096	35.468	4.86	217.0	109.2	28.090	23.472	31.689	39.557	27
62	27.803	35.514	4.80	214.3	107.3	27.788	23.605	31.829	39.704	62
89	27.684	35.519	4.65	207.6	103.8	27.663	23.650	31.877	39.754	89
99	27.374	35.504	4.50	200.9	99.9	27.351	23.740	31.974	39.859	99
399	12.059	35.371	0.23	10.3	3.8	12.006	26.877	35.600	43.943	398
700	9.971	35.306	0.20	8.9	3.2	9.888	27.211	36.022	44.446	699
849	9.383	35.360	0.30	13.4	4.7	9.285	27.354	36.190	44.638	848
1199	6.930	35.134	0.69	30.8	10.2	6.810	27.551	36.502	45.057	1197

CDARWIN 25  
DATE: 8/10/87

STA: 103

TIME: 1321

LAT: 12 45.0N

LOD: 63° 30' 0E

SONIC DEPTH: 4204 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	27.834	36.381	---	---	---	27.833	23.490	31.715	39.589	0.009	---	2
10	27.800	36.380	---	---	---	27.828	23.491	31.716	39.591	0.044	2.15	10
20	27.718	36.379	---	---	---	27.813	23.495	31.720	39.595	0.088	2.32	20
30	27.774	36.378	---	---	---	27.767	23.510	31.736	39.612	0.132	2.48	30
40	27.709	36.374	---	---	---	27.700	23.528	31.756	39.634	0.176	2.75	40
50	27.389	36.350	---	---	---	27.377	23.616	31.851	39.736	0.219	3.59	50
60	27.123	36.332	---	---	---	27.109	23.688	31.930	39.821	0.262	4.41	60
74	26.974	36.301	---	---	---	26.957	23.714	31.960	39.855	0.321	5.55	74
100	26.868	36.292	---	---	---	26.845	23.743	31.992	39.890	0.430	7.46	100
124	23.190	36.089	---	---	---	23.164	24.714	33.060	41.048	0.520	8.31	123
150	21.274	35.914	---	---	---	21.245	25.124	33.526	41.567	0.599	8.05	149
174	18.913	35.722	0.31	14.0	6.0	18.882	25.606	34.081	42.191	0.663	6.99	173
200	16.698	35.591	0.21	9.6	3.9	16.665	26.049	34.599	42.778	0.721	6.23	199
224	15.406	35.537	0.32	14.2	5.7	15.371	26.305	34.900	43.122	0.766	5.23	223
250	14.823	35.548	0.33	14.7	5.8	14.785	26.443	35.059	43.301	0.811	4.49	249
274	14.151	35.519	0.29	12.9	5.0	14.111	26.565	35.206	43.472	0.849	3.88	273
300	13.484	35.485	0.40	18.0	6.9	13.441	26.679	35.346	43.635	0.888	3.35	299
350	12.660	35.422	0.16	7.1	2.7	12.612	26.798	35.497	43.817	0.957	2.62	349
400	12.378	35.469	0.16	7.2	2.7	12.324	26.891	35.601	43.930	1.022	2.32	399
450	11.883	35.447	0.21	9.3	3.5	11.824	26.970	35.700	44.048	1.083	2.02	449
500	11.638	35.446	0.24	10.8	4.0	11.573	27.018	35.757	44.115	1.143	1.95	499
600	11.187	35.488	0.23	10.5	3.8	11.111	27.136	35.894	44.268	1.254	1.81	599
700	10.573	35.470	0.22	9.8	3.5	10.486	27.235	36.019	44.417	1.357	1.77	699
800	9.819	35.410	0.25	11.0	3.9	9.724	27.319	36.136	44.565	1.454	1.70	799
900	9.033	35.354	0.25	11.3	3.9	8.931	27.407	36.259	44.721	1.543	1.62	898
1000	8.289	35.279	0.35	15.8	5.4	8.180	27.466	36.352	44.846	1.626	1.42	998
1200	7.074	35.184	0.53	23.6	7.8	6.953	27.571	36.514	45.062	1.778	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
19	27.817	36.380	5.06	225.9	113.1	27.813	23.497	31.721	39.597	19
78	26.961	36.298	4.81	214.7	105.9	26.943	23.716	31.962	39.858	77
249	14.833	35.546	0.31	13.8	5.4	14.795	26.439	35.055	43.296	248
373	12.606	35.466	0.26	11.6	4.4	12.555	26.844	35.544	43.865	372
599	11.192	35.481	0.20	8.9	3.3	11.116	27.130	35.887	44.262	598
750	10.174	35.428	0.26	11.6	4.1	10.083	27.272	36.073	44.488	748
950	8.695	35.313	0.31	13.8	4.8	8.589	27.429	36.296	44.773	949
1050	7.968	35.243	0.44	19.6	6.7	7.856	27.487	36.388	44.896	1048
1200	7.075	35.181	0.55	24.6	8.2	6.954	27.568	36.511	45.060	1198



CDARWIN 25  
DATE: 8/10/87

STA: 104

TIME: 1747  
LAT: 13° 15.0N

LON: 63° 24.0E

SONIC DEPTH: 4158 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	27.670	36.438	---	---	---	27.670	23.587	31.814	39.692	0.009	---	2
10	27.669	36.438	---	---	---	27.667	23.588	31.815	39.693	0.043	1.93	10
20	27.666	36.439	---	---	---	27.661	23.590	31.818	39.696	0.086	2.15	20
30	27.647	36.441	---	---	---	27.640	23.598	31.827	39.705	0.129	2.32	30
40	27.584	36.444	---	---	---	27.575	23.622	31.852	39.731	0.172	2.80	40
50	27.420	36.441	---	---	---	27.408	23.674	31.908	39.791	0.215	3.72	50
60	27.375	36.468	---	---	---	27.361	23.710	31.944	39.828	0.257	4.48	60
74	27.215	36.501	---	---	---	27.198	23.787	32.025	39.913	0.315	5.63	74
100	27.037	36.526	---	---	---	27.014	23.865	32.107	39.999	0.423	7.50	100
124	23.071	36.056	---	---	---	23.045	24.723	33.073	41.064	0.509	7.88	124
150	20.948	35.902	---	---	---	20.919	25.204	33.616	41.666	0.588	7.52	149
174	19.241	35.801	0.40	18.0	7.7	19.209	25.581	34.045	42.145	0.651	6.66	173
200	16.834	35.552	0.32	14.5	5.9	16.801	25.986	34.532	42.708	0.710	6.13	199
224	15.747	35.547	0.25	11.3	4.5	15.712	26.236	34.819	43.030	0.757	5.31	223
250	15.020	35.521	0.34	15.3	6.0	14.982	26.379	34.988	43.224	0.804	4.67	249
274	14.280	35.499	0.27	12.1	4.7	14.240	26.522	35.159	43.420	0.843	3.98	273
300	13.744	35.505	0.27	12.0	4.6	13.701	26.641	35.298	43.577	0.883	3.49	299
350	13.013	35.482	0.41	18.3	6.9	12.964	26.774	35.459	43.765	0.954	2.66	349
400	12.691	35.499	0.30	13.3	5.0	12.636	26.853	35.550	43.868	1.020	2.26	399
450	12.325	35.509	0.27	12.0	4.5	12.264	26.934	35.646	43.977	1.084	2.13	449
500	11.695	35.434	0.14	6.5	2.4	11.630	26.998	35.735	44.091	1.144	1.96	499
600	11.391	35.515	0.19	8.6	3.2	11.314	27.120	35.869	44.235	1.258	1.94	599
700	10.679	35.488	0.11	4.9	1.8	10.592	27.229	36.008	44.403	1.363	1.92	699
800	9.836	35.416	0.14	6.1	2.2	9.741	27.322	36.137	44.566	1.459	1.77	799
900	9.146	35.376	0.19	8.3	2.9	9.043	27.406	36.253	44.710	1.548	1.62	898
1000	8.260	35.275	0.31	14.0	4.8	8.151	27.467	36.354	44.850	1.631	1.49	998
1200	6.961	35.148	0.56	25.2	8.3	6.841	27.558	36.507	45.060	1.784	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
39	27.588	36.438	4.90	218.8	109.1	27.579	23.616	31.846	39.726	39
209	16.314	35.557	0.28	12.5	5.1	16.280	26.112	34.676	42.868	208
319	13.330	35.477	0.44	19.6	7.5	13.285	26.705	35.378	43.673	318
398	12.694	35.501	0.29	12.9	4.9	12.639	26.854	35.551	43.868	396
499	11.695	35.435	0.13	5.8	2.1	11.630	26.998	35.736	44.091	498
649	11.008	35.489	0.12	5.4	1.9	10.926	27.170	35.936	44.317	647
798	9.841	35.416	0.15	6.7	2.4	9.746	27.321	36.136	44.565	796
992	8.320	35.289	0.33	14.7	5.0	8.212	27.469	36.353	44.846	990
1199	7.053	35.157	0.58	25.9	8.6	6.932	27.552	36.497	45.046	1197

CDARWIN 25  
DATE 8/11/87

STA: 105

LAT: 14° 10.0N  
TIME: 0107

LON: 63° 6.0E

SONIC DEPTH: 4051 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	27.367	36.501	---	---	---	27.367	23.733	31.967	39.850	0.008	---	2
10	27.371	36.502	---	---	---	27.369	23.733	31.965	39.850	0.041	1.31	10
20	27.370	36.502	---	---	---	27.365	23.734	31.968	39.851	0.083	1.45	20
30	27.365	36.499	---	---	---	27.358	23.734	31.968	39.852	0.125	2.10	30
40	27.359	36.496	---	---	---	27.350	23.735	31.969	39.853	0.166	3.29	40
50	27.319	36.490	---	---	---	27.307	23.744	31.979	39.864	0.208	4.25	50
60	27.061	36.441	---	---	---	27.047	23.791	32.033	39.924	0.250	5.18	60
74	26.839	36.398	---	---	---	26.822	23.830	32.078	39.975	0.307	6.51	74
124	21.929	36.077	---	---	---	21.904	25.065	33.446	41.467	0.487	7.91	124
150	19.639	35.857	---	---	---	19.611	25.519	33.971	42.058	0.557	6.90	149
174	18.219	35.725	0.05	2.2	0.9	18.189	25.782	34.279	42.411	0.615	6.09	173
200	16.617	35.665	0.04	1.6	0.6	16.584	26.124	34.676	42.857	0.669	5.60	199
224	15.890	35.710	0.03	1.4	0.6	15.854	26.328	34.904	43.109	0.714	5.03	223
250	15.165	35.733	0.03	1.3	0.5	15.127	26.510	35.112	43.340	0.757	4.36	249
274	14.550	35.704	0.03	1.2	0.5	14.509	26.623	35.247	43.497	0.794	3.79	273
300	13.806	35.618	0.04	1.6	0.6	13.763	26.716	35.368	43.645	0.832	3.31	299
350	12.964	35.564	0.03	1.4	0.5	12.915	26.847	35.533	43.840	0.900	2.72	349
400	12.479	35.562	0.03	1.4	0.5	12.425	26.943	35.648	43.972	0.962	2.27	399
450	12.037	35.532	0.04	1.8	0.7	11.977	27.008	35.730	44.071	1.022	2.02	449
500	11.768	35.541	0.05	2.2	0.8	11.702	27.067	35.800	44.152	1.079	1.90	499
600	11.220	35.537	0.12	5.3	1.9	11.143	27.169	35.924	44.297	1.187	1.81	599
700	10.385	35.459	0.13	5.8	2.1	10.299	27.259	36.050	44.456	1.288	1.74	699
800	9.889	35.450	0.21	9.4	3.3	9.793	27.339	36.152	44.578	1.382	1.66	799
900	9.213	35.399	0.28	12.3	4.3	9.109	27.413	36.256	44.710	1.470	1.52	899
1000	8.419	35.313	0.27	12.0	4.1	8.309	27.473	36.353	44.841	1.552	1.37	998
1200	7.125	35.195	0.63	28.2	9.4	7.003	27.572	36.513	45.059	1.704	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
39	27.359	36.498	4.74	211.6	105.2	27.350	23.736	31.970	39.854	39
80	26.874	36.396	4.48	200.0	98.6	26.856	23.818	32.065	39.962	80
258	15.026	35.731	0.03	1.3	0.5	14.987	26.539	35.146	43.379	257
450	12.037	35.530	0.04	1.8	0.7	11.977	27.006	35.728	44.070	449
549	11.497	35.531	0.06	2.7	1.0	11.426	27.111	35.855	44.217	547
700	10.377	35.458	0.14	6.3	2.2	10.291	27.260	36.051	44.458	699
846	9.492	35.417	0.21	9.4	3.3	9.393	27.381	36.211	44.654	844
1049	8.250	35.309	0.30	13.4	4.6	8.136	27.496	36.384	44.879	1047
1199	7.134	35.201	0.63	28.1	9.4	7.012	27.576	36.516	45.061	1198

CDARWIN 25  
DATE: 8/11/87

STA: 106

TIME: 0547

LAT: 14° 40' 0N

LOX 62 58 NE

SONIC DEPTH: 4005 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	27.340	36.500	---	---	---	27.340	23.741	31.976	39.860	0.008	---	2
10	27.342	36.500	---	---	---	27.340	23.741	31.975	39.860	0.041	2.32	10
20	27.340	36.500	---	---	---	27.335	23.743	31.977	39.862	0.083	3.49	20
30	27.332	36.501	---	---	---	27.325	23.746	31.981	39.866	0.124	4.30	30
40	27.330	36.501	---	---	---	27.321	23.748	31.983	39.868	0.166	5.03	40
50	27.326	36.503	---	---	---	27.314	23.751	31.987	39.871	0.208	5.75	50
60	27.315	36.507	---	---	---	27.301	23.759	31.994	39.879	0.249	6.51	60
100	23.333	36.455	---	---	---	23.312	24.948	33.285	41.266	0.393	7.84	100
124	21.311	36.098	---	---	---	21.290	25.252	33.650	41.688	0.462	7.36	124
150	18.906	35.841	---	---	---	18.879	25.697	34.171	42.280	0.528	6.43	149
174	17.215	35.756	-0.06	-2.8	-1.2	17.186	26.051	34.581	42.743	0.580	5.84	173
200	16.161	35.662	0.06	2.9	1.2	16.129	26.228	34.796	42.992	0.630	5.05	199
224	15.406	35.668	0.14	6.1	2.4	15.371	26.405	34.999	43.220	0.672	4.37	223
250	15.028	35.736	0.04	1.9	0.7	14.990	26.542	35.148	43.381	0.714	3.86	249
274	14.590	35.731	-0.00	-0.0	-0.0	14.549	26.635	35.257	43.505	0.751	3.48	273
300	14.152	35.713	0.00	0.1	0.0	14.108	26.716	35.355	43.618	0.788	3.10	299
350	13.536	35.712	0.05	2.4	0.9	13.486	26.846	35.508	43.792	0.856	2.57	349
400	13.045	35.689	0.03	1.3	0.5	12.989	26.929	35.610	43.913	0.919	2.34	399
450	12.504	35.654	0.04	1.7	0.6	12.443	27.012	35.714	44.037	0.979	2.15	449
500	12.085	35.626	0.04	1.7	0.6	12.018	27.073	35.792	44.131	1.036	1.96	499
600	11.344	35.572	0.03	1.3	0.5	11.267	27.173	35.923	44.290	1.144	1.72	599
700	10.838	35.578	0.25	10.9	4.0	10.750	27.272	36.043	44.430	1.244	1.72	699
800	10.176	35.523	0.16	7.0	2.5	10.079	27.347	36.147	44.561	1.338	1.61	799
900	9.450	35.461	0.21	9.2	3.2	9.345	27.423	36.255	44.699	1.427	1.63	899
1000	8.625	35.370	0.29	13.1	4.5	8.514	27.486	36.356	44.835	1.509	1.55	998
1200	7.151	35.209	0.70	31.1	10.4	7.029	27.580	36.519	45.063	1.659	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
1	27.340	36.502	4.88	217.9	108.3	27.340	23.742	31.977	39.861	---
9	27.342	36.499	4.82	215.2	107.0	27.340	23.740	31.975	39.859	8
22	27.339	36.501	4.84	216.1	107.4	27.334	23.743	31.978	39.863	22
34	27.331	36.501	4.81	214.7	106.7	27.323	23.747	31.982	39.867	34
52	27.326	36.502	4.81	214.7	106.7	27.314	23.751	31.986	39.871	52
91	23.636	36.378	3.00	133.9	62.5	23.617	24.800	33.130	41.104	91
209	15.784	35.657	0.12	5.4	2.2	15.751	26.311	34.891	43.100	208
298	14.168	35.713	0.00	0.0	0.0	14.124	26.713	35.351	43.613	297
599	11.342	35.573	0.02	0.9	0.3	11.265	27.174	35.924	44.292	598

CDARWIN 25  
DATE: 8/11/87

STA: 107

LAT: 15° 35.0N  
TIME: 1301

LON: 62° 41.0E

SONIC DEPTH: 3934 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	27.057	36.491	---	---	---	27.056	23.825	32.067	39.957	0.008	---	2
10	27.064	36.491	---	---	---	27.062	23.824	32.065	39.956	0.041	4.51	10
20	27.039	36.489	---	---	---	27.034	23.831	32.073	39.964	0.081	5.13	20
30	27.052	36.491	---	---	---	27.046	23.829	32.070	39.961	0.122	5.72	30
40	26.996	36.489	---	---	---	26.987	23.846	32.089	39.982	0.163	6.30	40
50	26.962	36.494	---	---	---	26.951	23.862	32.106	39.999	0.203	6.88	50
60	25.354	36.441	---	---	---	25.341	24.328	32.612	40.543	0.243	7.44	60
74	22.616	36.225	---	---	---	22.601	24.979	33.339	41.340	0.288	7.68	74
100	20.703	36.035	---	---	---	20.684	25.370	33.787	41.842	0.362	7.07	100
124	19.770	36.000	---	---	---	19.747	25.593	34.038	42.120	0.423	6.05	124
150	18.619	35.938	---	---	---	18.593	25.844	34.326	42.442	0.483	5.18	150
174	17.516	35.768	0.07	3.3	1.4	17.486	26.988	34.608	42.660	0.534	4.87	173
200	16.725	35.811	0.11	4.9	2.0	16.692	26.211	34.757	42.933	0.585	4.67	199
224	16.116	35.787	0.15	6.8	2.7	16.080	26.336	34.903	43.100	0.629	4.44	223
250	15.349	35.815	0.14	6.3	2.5	15.310	26.532	35.126	43.347	0.672	4.06	249
274	14.832	35.798	0.10	4.3	1.7	14.790	26.635	35.247	43.486	0.708	3.59	273
300	14.404	35.771	0.08	3.5	1.4	14.359	26.707	35.336	43.590	0.746	3.17	299
350	13.606	35.717	0.09	4.2	1.6	13.556	26.835	35.494	43.776	0.814	2.69	349
400	13.063	35.696	0.05	2.2	0.8	13.007	26.931	35.612	43.913	0.877	2.21	399
450	12.669	35.670	0.05	2.3	0.9	12.607	26.991	35.687	44.004	0.938	1.99	449
500	12.322	35.654	0.05	2.3	0.9	12.254	27.049	35.758	44.088	0.996	1.93	499
600	11.569	35.603	0.08	3.4	1.3	11.491	27.156	35.896	44.254	1.106	1.86	599
700	10.820	35.565	0.10	4.3	1.6	10.732	27.265	36.037	44.425	1.208	1.92	699
800	10.063	35.508	0.12	5.4	1.9	9.966	27.355	36.160	44.578	1.301	1.72	799
900	9.221	35.426	0.16	7.1	2.5	9.117	27.433	36.276	44.729	1.388	1.64	899
1000	8.592	35.378	0.27	12.1	4.2	8.481	27.497	36.368	44.848	1.469	1.42	999
1200	7.218	35.226	0.50	22.2	7.4	7.095	27.584	36.520	45.061	1.618	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
40	26.998	36.489	4.98	222.3	109.9	26.989	23.846	32.089	39.981	39
159	18.243	35.900	0.05	2.2	0.9	18.215	25.909	34.404	42.532	159
223	16.139	35.782	0.14	6.3	2.5	16.103	26.326	34.893	43.089	222
299	14.460	35.767	0.09	4.0	1.6	14.415	26.692	35.319	43.570	298
498	12.329	35.651	0.05	2.2	0.8	12.262	27.045	35.754	44.084	497
699	10.819	35.559	0.11	4.9	1.8	10.731	27.260	36.033	44.420	698
899	9.231	35.425	0.16	7.1	2.5	9.127	27.431	36.273	44.726	898
1000	8.595	35.377	0.27	12.1	4.2	8.484	27.496	36.367	44.847	998
1199	7.215	35.221	0.51	22.8	7.6	7.092	27.580	36.516	45.058	1198

CDARWIN 25  
DATE: 8/11/87

STA: 108

LAT: 16 5 ON  
TIME: 1805

LON 62 30 OE

SONIC DEPTH 3919 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	27.021	36.431	---	---	---	27.021	23.792	32.035	39.927	0.008	---	2
10	27.024	36.432	---	---	---	27.022	23.792	32.035	39.927	0.041	3.70	10
20	27.026	36.432	---	---	---	27.021	23.792	32.035	39.927	0.082	4.40	20
30	27.029	36.432	---	---	---	27.022	23.792	32.035	39.927	0.123	5.05	30
40	27.029	36.432	---	---	---	27.020	23.793	32.036	39.928	0.164	5.72	40
50	27.031	36.434	---	---	---	27.020	23.794	32.037	39.929	0.205	6.41	50
60	26.975	36.433	---	---	---	26.961	23.812	32.057	39.950	0.247	7.10	60
74	23.790	36.420	---	---	---	23.774	24.786	33.111	41.080	0.299	7.85	74
100	21.682	36.104	---	---	---	21.662	25.153	33.541	41.568	0.378	7.59	100
124	19.554	35.837	---	---	---	19.531	25.525	33.979	42.069	0.441	6.74	124
150	18.541	35.896	---	---	---	18.515	25.831	34.316	42.435	0.502	5.59	150
174	17.812	35.893	0.01	0.4	0.2	17.782	26.011	34.520	42.661	0.554	5.11	173
200	17.314	35.951	0.01	0.4	0.1	17.280	26.178	34.703	42.859	0.605	4.76	199
224	16.709	36.022	0.01	0.5	0.2	16.672	26.378	34.922	43.096	0.648	4.49	223
250	15.749	35.938	0.02	0.9	0.4	15.710	26.537	35.115	43.321	0.691	4.08	249
274	15.200	35.902	0.04	1.6	0.6	15.158	26.634	35.232	43.457	0.728	3.61	273
300	14.666	35.866	0.03	1.3	0.5	14.621	26.724	35.342	43.585	0.765	3.13	299
350	13.951	35.816	0.06	2.5	1.0	13.900	26.840	35.485	43.754	0.833	2.59	349
400	13.494	35.809	0.06	2.7	1.0	13.437	26.931	35.593	43.879	0.897	2.28	399
450	12.965	35.766	0.05	2.5	0.9	12.902	27.007	35.690	43.995	0.957	2.04	449
500	12.510	35.713	0.06	2.7	1.0	12.442	27.058	35.759	44.081	1.015	1.85	499
600	11.729	35.635	0.10	4.5	1.7	11.650	27.150	35.884	44.236	1.125	1.81	599
700	11.015	35.593	0.13	5.9	2.1	10.926	27.251	36.015	44.395	1.227	1.74	699
800	10.272	35.536	0.13	5.8	2.1	10.174	27.341	36.137	44.547	1.323	1.74	799
900	9.558	35.473	0.16	7.1	2.6	9.462	27.415	36.242	44.681	1.412	1.66	899
1000	8.830	35.406	0.19	8.5	3.0	8.717	27.482	36.342	44.813	1.495	1.52	999
1000	7.412	35.260	0.39	17.3	5.8	7.287	27.583	36.510	45.042	1.645	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
29	27.028	36.431	4.94	220.5	109.0	27.021	23.791	32.034	39.926	29
128	19.287	35.800	0.01	0.4	0.2	19.264	25.566	34.029	42.127	128
229	16.605	36.022	0.01	0.4	0.2	16.567	26.403	34.950	43.128	229
350	13.952	35.816	0.03	1.3	0.5	13.901	26.840	35.485	43.753	349
450	12.986	35.770	0.03	1.3	0.5	12.923	27.006	35.688	43.992	449
549	12.022	35.648	0.06	2.7	1.0	11.949	27.103	35.825	44.166	548
750	10.632	35.558	0.09	4.0	1.4	10.538	27.294	36.074	44.470	749
999	8.838	35.404	0.14	6.3	2.2	8.725	27.479	36.339	44.809	997
1199	7.399	35.259	0.38	17.0	5.7	7.275	27.584	36.512	45.044	1197

CDARWIN 25  
DATE: 8/12/87

STA: 109

LAT: 17° 0.0N  
TIME: 0144

LON: 62° 13.0E

SONIC DEPTH: 3828 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	27.285	36.609	---	---	---	27.285	23.840	32.075	39.960	0.008	---	2
10	27.284	36.608	---	---	---	27.282	23.841	32.076	39.960	0.040	5.16	10
20	27.288	36.608	---	---	---	27.283	23.840	32.075	39.960	0.081	5.58	20
30	27.284	36.608	---	---	---	27.277	23.843	32.077	39.962	0.122	6.01	30
40	27.173	36.601	---	---	---	27.164	23.874	32.111	39.999	0.162	6.50	40
50	23.861	36.332	---	---	---	23.851	24.697	33.021	40.989	0.199	6.72	50
60	23.222	36.312	---	---	---	23.210	24.870	33.212	41.196	0.231	6.68	60
74	22.898	36.462	---	---	---	22.883	25.079	33.428	41.419	0.273	6.77	74
100	22.119	36.383	---	---	---	22.099	25.243	33.615	41.628	0.346	6.12	100
124	20.688	36.169	---	---	---	20.664	25.477	33.893	41.947	0.410	5.40	124
150	19.418	36.047	---	---	---	19.391	25.722	34.177	42.269	0.473	5.46	150
174	18.337	35.979	0.03	1.5	0.6	18.307	25.947	34.438	42.562	0.527	5.46	173
200	17.511	36.056	0.00	0.1	0.1	17.477	26.211	34.728	42.876	0.579	5.29	199
224	16.594	36.045	0.00	0.2	0.1	16.557	26.423	34.971	43.149	0.620	4.84	223
250	16.083	36.095	0.03	1.3	0.5	16.043	26.581	35.146	43.340	0.662	4.29	249
274	15.387	36.067	0.01	0.6	0.2	15.344	26.719	35.309	43.525	0.697	3.67	273
300	14.464	35.859	0.01	0.4	0.1	14.419	26.762	35.387	43.638	0.733	3.08	299
350	13.637	35.795	0.01	0.7	0.3	13.587	26.889	35.546	43.826	0.798	2.32	349
400	13.244	35.785	0.02	0.8	0.3	13.188	26.964	35.636	43.930	0.860	2.15	399
450	12.512	35.678	0.04	1.8	0.7	12.451	27.029	35.730	44.053	0.918	2.02	449
500	12.160	35.660	0.05	2.1	0.8	12.093	27.084	35.800	44.136	0.975	1.85	499
600	11.523	35.626	0.09	4.1	1.5	11.445	27.181	35.923	44.283	1.082	1.78	599
700	10.797	35.581	0.09	4.2	1.5	10.709	27.282	36.054	44.443	1.181	1.81	699
800	9.960	35.494	0.11	4.8	1.7	9.864	27.362	36.171	44.594	1.274	1.60	799
900	9.208	35.418	0.10	4.7	1.6	9.104	27.429	36.272	44.726	1.360	1.55	899
1000	8.556	35.365	0.19	8.5	2.9	8.445	27.493	36.366	44.847	1.442	1.46	999
1198	7.034	35.194	0.42	18.9	6.3	6.913	27.584	36.529	45.079	1.589	---	1196

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	27.285	36.610	4.62	206.3	102.5	27.281	23.843	32.077	39.962	19
84	22.651	36.485	2.58	115.2	52.9	22.634	25.168	33.523	41.521	84
224	16.607	36.039	0.01	0.4	0.2	16.570	26.415	34.963	43.140	224
399	13.237	35.794	0.04	1.8	0.7	13.181	26.972	35.645	43.939	398
548	11.836	35.648	0.09	4.0	1.5	11.764	27.138	35.868	44.215	547
749	10.405	35.563	0.13	5.8	2.1	10.313	27.338	36.127	44.531	747
950	8.914	35.403	0.14	6.3	2.2	8.806	27.465	36.322	44.788	948
1098	7.837	35.281	0.32	14.3	4.8	7.720	27.537	36.443	44.957	1096
1201	7.065	35.195	0.48	21.4	7.1	6.944	27.581	36.524	45.077	---

CDARWIN 25  
DATE: 8/12/87

STA: 110

TIME: 0617

LAT: 17° 30.0N

LON: 62° 3' 0E

SONIC DEPTH: 3807 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	27.365	36.630	---	---	---	27.365	23.831	32.063	39.946	0.008	---	2
10	27.366	36.631	---	---	---	27.364	23.831	32.064	39.946	0.041	4.33	10
20	27.361	36.631	---	---	---	27.356	23.834	32.067	39.949	0.081	4.85	20
30	27.359	36.631	---	---	---	27.352	23.835	32.068	39.951	0.122	5.40	30
40	27.357	36.632	---	---	---	27.348	23.837	32.070	39.953	0.163	5.96	40
50	27.346	36.637	---	---	---	27.334	23.846	32.079	39.962	0.203	6.55	50
60	24.343	36.351	---	---	---	24.330	24.567	32.879	40.835	0.241	6.94	60
74	23.636	36.356	---	---	---	23.621	24.783	33.113	41.087	0.287	7.19	74
100	21.674	36.165	---	---	---	21.654	25.202	33.589	41.616	0.365	6.79	100
124	20.604	36.079	---	---	---	20.580	25.431	33.851	41.908	0.429	5.94	124
150	19.411	35.987	---	---	---	19.384	25.678	34.134	42.227	0.493	5.35	150
174	18.358	35.907	0.06	2.6	1.1	18.327	25.886	34.377	42.502	0.548	5.19	173
200	17.709	35.957	0.03	1.3	0.5	17.675	26.087	34.598	42.742	0.602	5.04	199
224	17.114	36.054	0.01	0.6	0.2	17.077	26.306	34.836	42.998	0.647	4.81	223
250	16.395	36.057	0.04	1.8	0.7	16.354	26.480	35.034	43.219	0.691	4.33	249
274	15.560	35.970	0.07	3.0	1.2	15.517	26.605	35.190	43.402	0.729	3.86	273
300	15.199	35.984	0.07	3.2	1.3	15.153	26.698	35.295	43.519	0.767	3.37	299
350	14.381	35.934	0.06	2.6	1.0	14.329	26.840	35.467	43.720	0.836	2.79	349
400	13.635	35.857	0.06	2.6	1.0	13.577	26.940	35.596	43.875	0.899	2.39	399
450	13.126	35.826	0.04	1.7	0.7	13.063	27.021	35.697	43.995	0.959	1.88	449
500	12.493	35.735	0.03	1.2	0.5	12.425	27.078	35.780	44.102	1.016	---	499

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
2	27.364	36.629	4.76	212.5	105.7	27.364	23.830	32.063	39.945	2
7	27.365	36.629	4.76	212.5	105.7	27.364	23.830	32.063	39.945	7
16	27.362	36.629	4.72	210.7	104.9	27.358	23.832	32.065	39.947	16
27	27.359	36.635	4.58	204.5	101.7	27.353	23.838	32.071	39.954	27
39	27.358	36.623	4.72	210.7	104.8	27.349	23.830	32.063	39.946	39
66	24.071	36.368	2.90	129.5	60.9	24.057	24.662	32.980	40.944	65
179	18.197	35.903	0.01	0.4	0.2	18.166	25.924	34.420	42.550	179
224	17.121	36.066	0.02	0.9	0.4	17.084	26.314	34.843	43.004	223
500	12.505	35.748	0.00	0.0	0.0	12.437	27.086	35.787	44.109	499

CDARWIN 26  
DATE: 8/12/87

STA: 111

LAT: 18° 24.0N  
TIME: 1350

LON: 61° 49.0E

SONIC DEPTH: 3706 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.767	36.371	---	---	---	26.767	23.827	32.077	39.976	0.008	---	2
10	26.764	36.371	---	---	---	26.762	23.829	32.079	39.978	0.041	5.39	10
30	24.990	36.238	---	---	---	24.983	24.284	32.580	40.521	0.119	6.02	30
40	24.133	36.334	---	---	---	24.125	24.616	32.933	40.895	0.154	6.10	40
50	23.353	36.285	---	---	---	23.343	24.811	33.149	41.131	0.186	6.08	50
60	23.188	36.394	---	---	---	23.176	24.942	33.284	41.269	0.217	6.12	60
74	22.624	36.387	---	---	---	22.609	25.101	33.458	41.458	0.259	6.32	74
100	21.340	36.223	---	---	---	21.320	25.338	33.734	41.770	0.331	5.76	100
124	19.856	36.017	---	---	---	19.833	25.583	34.026	42.105	0.392	5.40	124
150	18.771	35.921	---	---	---	18.744	25.792	34.270	42.382	0.453	5.25	150
174	18.003	36.007	0.05	2.1	0.9	17.973	26.051	34.552	42.687	0.504	4.96	174
200	17.161	35.963	0.06	2.8	1.1	17.128	26.224	34.754	42.915	0.555	4.46	199
224	16.142	35.811	0.10	4.6	1.9	16.106	26.348	34.914	43.109	0.598	4.03	223
250	16.080	35.915	0.08	3.4	1.4	16.040	26.444	35.011	43.207	0.642	3.73	249
274	15.815	35.973	0.03	1.2	0.5	15.772	26.550	35.125	43.329	0.681	3.61	273
300	14.917	35.853	0.03	1.2	0.5	14.871	26.659	35.268	43.503	0.720	3.35	299
350	13.876	35.738	0.06	2.7	1.0	13.825	26.795	35.444	43.716	0.791	2.71	349
400	13.736	35.838	0.03	1.4	0.5	13.678	26.904	35.556	43.873	0.856	2.38	399
450	13.264	35.799	0.03	1.3	0.5	13.200	26.972	35.644	43.937	0.918	2.13	449
500	12.709	35.740	0.03	1.4	0.5	12.640	27.039	35.733	44.047	0.977	1.98	499
600	11.804	35.638	0.04	1.9	0.7	11.725	27.138	35.869	44.218	1.089	1.85	599
700	11.111	35.610	0.07	3.3	1.2	11.022	27.248	36.007	44.383	1.192	1.86	699
800	10.383	35.562	0.12	5.4	1.9	10.285	27.342	36.133	44.538	1.288	1.74	799
900	9.583	35.496	0.13	5.8	2.1	9.477	27.429	36.254	44.693	1.377	1.67	899
1000	8.820	35.419	0.18	8.0	2.8	8.707	27.494	36.354	44.825	1.459	1.59	999
1200	7.219	35.237	0.35	15.5	5.2	7.096	27.593	36.528	45.069	1.607	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
9	26.764	36.376	5.20	232.1	114.2	26.762	23.833	32.083	39.981	9
181	17.863	36.027	0.06	2.7	1.1	17.832	26.102	34.607	42.746	181
229	16.032	35.808	0.11	4.9	2.0	15.995	26.371	34.941	43.140	229
268	15.953	35.988	0.03	1.3	0.5	15.910	26.529	35.100	43.299	268
349	13.859	35.763	0.06	2.7	1.0	13.808	26.810	35.460	43.732	348
401	13.751	35.858	0.05	2.2	0.9	13.693	26.916	35.568	43.843	400
698	11.118	35.615	0.05	2.2	0.8	11.029	27.250	36.009	44.385	697
848	10.084	35.543	0.16	7.1	2.5	9.981	27.380	36.184	44.601	846
1197	7.245	35.234	0.36	16.1	5.4	7.122	27.586	36.521	45.061	1196



CDARWIN 26  
DATE: 8/12/87

STA: 112

TIME: 1903

LAT: 18° 52.0N

LOX: 61° 41.0E

SONIC DEPTH: 3671 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	26.741	36.393	---	---	---	26.740	23.853	32.103	40.002	0.008	---	2
10	26.743	36.393	---	---	---	26.741	23.853	32.103	40.002	0.040	4.79	10
20	26.730	36.392	---	---	---	26.725	23.857	32.107	40.006	0.081	5.28	20
30	26.292	36.331	---	---	---	26.285	23.951	32.212	40.122	0.121	5.77	30
40	25.655	36.252	---	---	---	25.646	24.091	32.369	40.295	0.160	6.15	40
50	24.804	36.239	---	---	---	24.793	24.343	32.643	40.590	0.198	6.52	50
60	23.794	36.285	---	---	---	23.781	24.681	33.007	40.978	0.232	6.72	60
74	22.940	36.319	---	---	---	22.925	24.957	33.307	41.299	0.275	6.95	74
100	21.653	36.268	---	---	---	21.633	25.278	33.665	41.692	0.350	6.46	100
124	20.077	36.021	---	---	---	20.054	25.528	33.964	42.037	0.413	5.82	124
150	18.934	35.962	---	---	---	18.907	25.781	34.252	42.360	0.475	5.46	150
174	17.892	35.906	0.04	1.6	0.7	17.862	26.001	34.508	42.646	0.527	5.29	173
200	17.107	35.950	0.02	1.0	0.4	17.074	26.227	34.758	42.921	0.578	4.93	199
224	16.517	35.992	0.01	0.7	0.3	16.480	26.400	34.951	43.132	0.621	4.53	223
250	15.767	35.967	0.03	1.2	0.5	15.727	26.555	35.132	43.338	0.663	3.99	249
274	15.266	35.916	0.03	1.4	0.6	15.224	26.630	35.225	43.448	0.699	3.58	273
300	15.036	36.003	0.03	1.1	0.4	14.990	26.749	35.352	43.581	0.736	3.15	299
350	14.250	35.920	0.01	0.6	0.2	14.198	26.857	35.489	43.747	0.803	2.65	349
400	13.565	35.852	0.03	1.2	0.5	13.507	26.950	35.609	43.891	0.866	2.25	399
450	12.965	35.772	0.01	0.5	0.2	12.902	27.012	35.695	44.000	0.926	1.88	449
500	12.531	35.717	0.01	0.4	0.2	12.483	27.066	35.757	44.078	0.983	1.78	499
600	11.746	35.644	0.04	1.7	0.6	11.667	27.154	35.887	44.238	1.093	1.76	599
700	11.056	35.606	0.07	3.0	1.1	10.967	27.254	36.016	44.394	1.196	1.77	699
800	10.447	35.572	0.09	4.2	1.5	10.348	27.338	36.126	44.529	1.292	1.74	799
900	9.650	35.498	0.13	5.7	2.0	9.543	27.419	36.242	44.678	1.381	1.59	899
1000	8.838	35.420	0.18	8.2	2.8	8.725	27.492	36.351	44.821	1.463	1.47	999
1200	7.404	35.252	0.33	14.6	4.9	7.280	27.578	36.505	45.038	1.615	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	26.737	36.392	4.94	220.5	108.5	26.733	23.854	32.105	40.004	19
79	22.820	36.325	2.11	94.2	43.3	22.804	24.997	33.350	41.345	79
160	18.507	35.909	0.12	5.4	2.3	18.479	25.850	34.336	42.456	159
229	16.374	36.001	0.01	0.4	0.2	16.337	26.441	34.996	43.182	228
269	15.320	35.917	0.03	1.3	0.5	15.278	26.618	35.212	43.433	269
374	14.057	35.931	0.03	1.3	0.5	14.002	26.907	35.547	43.811	373
647	11.422	35.623	0.11	4.9	1.8	11.338	27.199	35.946	44.310	646
897	9.668	35.501	0.13	5.8	2.0	9.662	27.418	36.241	44.675	896
1200	7.395	35.252	0.33	14.7	4.9	7.271	27.579	36.507	45.040	1198

CDARWIN 26  
DATE: 9/13/87

STA: 113

TIME: 0302

LAT: 19° 50.0N

LON: 81° 22.0E

SONIC DEPTH: 3620 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	27.422	36.583	---	---	---	27.421	23.777	32.008	39.890	0.008	---	2
10	27.416	36.583	---	---	---	27.414	23.779	32.011	39.893	0.041	5.75	10
20	27.414	36.583	---	---	---	27.409	23.780	32.012	39.894	0.082	6.24	20
30	27.053	36.516	---	---	---	27.046	23.847	32.089	39.980	0.123	6.73	30
40	25.346	36.404	---	---	---	25.337	24.301	32.586	40.517	0.163	7.16	40
50	23.492	36.419	---	---	---	23.482	24.871	33.204	41.181	0.196	7.15	50
60	22.856	36.384	---	---	---	22.844	25.031	33.382	41.375	0.226	7.10	60
74	21.993	36.290	---	---	---	21.978	25.206	33.582	41.599	0.266	7.21	74
100	20.104	36.045	---	---	---	20.085	25.538	33.972	42.044	0.334	6.30	100
124	18.774	35.878	---	---	---	18.752	25.757	34.235	42.348	0.390	5.37	124
150	18.468	36.061	---	---	---	18.442	25.976	34.461	42.581	0.447	4.99	150
174	17.859	36.114	0.06	2.6	1.1	17.829	26.169	34.674	42.811	0.495	4.67	174
200	17.304	36.127	0.08	3.3	1.4	17.270	26.316	34.839	42.993	0.542	4.35	199
224	17.397	36.354	0.12	5.4	2.2	17.359	26.469	34.986	43.135	0.583	4.05	223
250	16.957	36.378	0.12	5.4	2.2	16.915	26.594	35.125	43.288	0.624	3.80	249
274	16.457	36.329	0.09	4.1	1.7	16.412	26.675	35.224	43.403	0.660	3.56	273
300	15.976	36.348	0.12	5.4	2.2	15.928	26.803	35.368	43.563	0.696	3.27	299
350	14.766	36.142	0.08	3.5	1.4	14.713	26.917	35.528	43.765	0.760	2.46	349
400	14.302	36.086	0.08	3.4	1.3	14.242	26.976	35.605	43.858	0.822	2.12	399
450	13.097	35.840	0.03	1.3	0.5	13.034	27.038	35.715	44.014	0.880	1.95	449
500	12.530	35.758	0.02	0.8	0.3	12.462	27.088	35.789	44.109	0.937	1.84	499
600	11.689	35.658	0.02	0.9	0.3	11.610	27.175	35.910	44.264	1.044	1.61	599
700	10.990	35.598	0.03	1.3	0.5	10.901	27.260	36.025	44.406	1.146	1.82	699
800	10.207	35.540	0.04	1.9	0.7	10.109	27.355	36.153	44.566	1.240	1.69	799
900	9.506	35.476	0.04	2.0	0.7	9.400	27.426	36.255	44.696	1.328	1.62	899
1000	8.746	35.397	0.06	2.7	0.9	8.634	27.488	36.352	44.826	1.410	1.47	999
1198	7.344	35.246	0.19	8.5	2.9	7.220	27.581	36.511	45.047	1.558	---	1196

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
19	27.414	36.582	4.80	214.3	106.7	27.410	23.780	32.012	39.894	19
68	22.289	36.323	1.47	65.6	29.9	22.275	25.147	33.514	41.523	68
149	18.504	36.068	0.06	2.7	1.1	18.478	25.972	34.456	42.575	149
225	17.415	36.356	0.12	5.4	2.2	17.377	26.465	34.982	43.130	225
274	16.470	36.331	0.09	4.0	1.6	16.425	26.674	35.222	43.401	274
450	13.094	35.841	0.03	1.3	0.5	13.031	27.039	35.716	44.015	449
700	10.990	35.599	0.03	1.3	0.5	10.901	27.261	36.026	44.406	699
999	8.753	35.397	0.06	2.7	0.9	8.641	27.487	36.351	44.824	998
1199	7.354	35.246	0.19	8.5	2.8	7.230	27.580	36.510	45.045	---

CDARWIN 25  
DATE: 8/13/87

STA: 114

TIME: 0720

LAT: 20° 17' 0N

LON: 61° 13' 0E

SONIC DEPTH: 3524 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
4	27.670	36.669	---	---	---	27.669	23.761	31.986	39.861	0.017	---	4
10	27.670	36.669	---	---	---	27.668	23.761	31.986	39.862	0.042	5.16	10
20	27.674	36.669	---	---	---	27.669	23.761	31.986	39.861	0.083	5.66	20
30	27.668	36.667	---	---	---	27.661	23.766	31.991	39.866	0.125	6.18	30
40	27.653	36.668	---	---	---	27.644	23.768	31.994	39.870	0.166	6.69	40
50	26.786	36.620	---	---	---	26.774	24.014	32.260	40.156	0.207	7.22	50
60	23.683	36.335	---	---	---	23.670	24.752	33.081	41.054	0.242	7.40	60
74	22.720	36.389	---	---	---	22.705	25.074	33.429	41.426	0.285	7.41	74
100	21.103	36.188	---	---	---	21.084	25.377	33.780	41.823	0.357	6.69	100
124	20.083	36.069	---	---	---	20.060	25.563	33.998	42.070	0.418	5.64	124
150	18.757	35.941	---	---	---	18.730	25.810	34.288	42.401	0.479	5.25	150
174	17.970	35.927	0.15	6.7	2.8	17.940	25.998	34.502	42.638	0.531	5.08	173
200	16.723	35.858	0.09	3.9	1.6	16.690	26.247	34.793	42.969	0.582	4.84	199
224	16.748	36.071	0.11	4.7	1.9	16.711	26.406	34.949	43.121	0.624	4.38	223
250	17.225	36.389	0.16	7.1	2.9	17.183	26.538	35.060	43.214	0.666	3.98	249
274	16.834	36.411	0.15	6.8	2.8	16.788	26.650	35.185	43.351	0.703	3.59	273
300	16.019	36.269	0.12	5.2	2.1	15.971	26.732	35.297	43.491	0.741	3.26	299
350	14.864	36.095	0.08	3.4	1.3	14.811	26.859	35.467	43.701	0.808	2.57	349
400	14.136	35.999	0.06	2.9	1.1	14.077	26.944	35.580	43.840	0.871	2.29	399
450	13.422	35.903	0.05	2.4	0.9	13.358	27.020	35.684	43.971	0.931	2.00	449
500	12.900	35.831	0.06	2.6	1.0	12.830	27.072	35.757	44.063	0.988	1.81	499
600	11.933	35.690	---	---	---	11.863	27.154	35.879	44.223	1.098	1.78	599
700	11.042	35.601	---	---	---	10.953	27.253	36.016	44.395	1.201	1.84	699
800	10.256	35.539	---	---	---	10.158	27.346	36.143	44.553	1.295	1.70	799
900	9.563	35.479	---	---	---	9.457	27.419	36.246	44.685	1.384	1.57	899
1000	8.873	35.408	0.17	7.7	2.7	8.760	27.477	36.335	44.803	1.467	1.49	999
1200	7.267	35.238	0.22	9.8	3.3	7.144	27.586	36.520	45.059	1.618	0.88	1198
1202	7.265	35.238	---	---	---	7.142	27.587	36.520	45.059	1.620	---	1200

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
5	27.670	36.669	4.75	212.1	106.1	27.669	23.761	31.986	39.861	4
20	27.674	36.669	4.71	210.3	105.2	27.669	23.761	31.986	39.861	19
30	27.658	36.668	4.70	209.8	104.9	27.661	23.766	31.992	39.867	29
39	27.653	36.666	4.68	208.9	104.5	27.644	23.767	31.993	39.868	38
54	25.857	36.546	4.10	183.0	88.8	25.845	24.251	32.521	40.439	53
201	16.737	35.843	0.13	5.8	2.4	16.704	26.233	34.778	42.954	200
274	16.872	36.415	0.19	8.5	3.5	16.826	26.643	35.177	43.342	273
648	11.425	35.635	0.15	6.7	2.5	11.341	27.208	35.954	44.318	647
1200	7.275	35.240	0.29	12.9	4.3	7.152	27.587	36.520	45.059	1198

CDARWIN 25  
DATE: 8/13/87

STA: 115  
TIME: 1121

LAT: 20° 42.0N

LON: 61° 4.0E

SONIC DEPTH: 3429 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	26.331	36.324	---	---	---	26.330	23.931	32.192	40.101	0.008	---	2
10	26.325	36.324	---	---	---	26.323	23.933	32.194	40.103	0.040	4.80	10
20	26.280	36.319	---	---	---	26.275	23.944	32.207	40.117	0.079	5.25	20
30	25.920	36.256	---	---	---	25.913	24.010	32.283	40.202	0.119	5.66	30
40	25.320	36.261	---	---	---	25.311	24.201	32.488	40.421	0.157	6.06	40
50	23.920	36.368	---	---	---	23.909	24.706	33.028	40.995	0.192	6.16	50
60	23.428	36.354	---	---	---	23.416	24.841	33.177	41.156	0.224	6.22	60
74	22.990	36.362	---	---	---	22.975	24.976	33.323	41.314	0.267	6.45	74
100	21.878	36.287	---	---	---	21.858	25.238	33.617	41.638	0.341	5.85	100
124	20.588	36.126	---	---	---	20.565	25.472	33.891	41.948	0.405	5.29	124
150	19.458	35.984	---	---	---	19.431	25.663	34.119	42.210	0.469	5.09	150
174	18.717	35.994	0.09	3.9	1.7	18.686	25.862	34.341	42.454	0.525	5.10	173
200	17.793	35.990	0.02	1.0	0.4	17.759	26.091	34.600	42.741	0.579	4.88	199
224	17.034	36.012	0.03	1.2	0.5	16.997	26.293	34.827	42.991	0.624	4.62	222
250	16.882	36.114	0.02	1.1	0.4	16.841	26.409	34.946	43.114	0.670	4.20	249
274	16.397	36.130	0.04	2.0	0.8	16.352	26.537	35.090	43.273	0.709	3.86	273
300	15.958	36.165	0.07	3.0	1.2	15.910	26.666	35.234	43.431	0.748	3.42	299
350	15.460	36.181	0.05	2.4	0.9	15.405	26.793	35.379	43.592	0.819	2.85	349
400	14.545	36.066	0.04	1.9	0.8	14.485	26.908	35.528	43.774	0.884	2.46	399
450	13.678	35.929	0.05	2.1	0.8	13.613	26.988	35.642	43.919	0.946	2.09	449
500	13.111	35.846	0.05	2.3	0.9	13.040	27.041	35.718	44.017	1.004	1.85	499
600	11.962	35.689	0.06	2.7	1.0	11.882	27.148	35.872	44.215	1.116	1.90	599
700	11.155	35.611	0.06	2.8	1.0	11.065	27.240	35.998	44.372	1.220	1.78	699
800	10.407	35.552	0.07	2.9	1.1	10.308	27.330	36.119	44.524	1.317	1.84	799
900	9.621	35.486	0.08	3.7	1.3	9.515	27.414	36.239	44.675	1.406	1.59	899
1000	8.919	35.415	0.09	4.0	1.4	8.805	27.475	36.331	44.797	1.489	1.46	999
1200	7.492	35.263	0.21	9.5	3.2	7.367	27.574	36.497	45.026	1.643	0.96	1198
1204	7.483	35.262	---	---	---	7.357	27.574	36.498	45.027	1.646	---	1202

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
13	26.324	36.324	4.98	222.3	108.6	26.321	23.934	32.195	40.104	13
99	21.925	36.285	1.55	69.2	31.3	21.905	25.223	33.601	41.620	98
199	17.808	35.997	0.03	1.3	0.6	17.774	26.093	34.601	42.741	198
322	16.004	36.247	0.06	2.7	1.1	15.952	26.719	35.285	43.480	321
448	13.685	35.940	0.03	1.3	0.5	13.620	26.995	35.648	43.925	447
602	11.955	35.692	0.03	1.3	0.5	11.875	27.151	35.876	44.219	601
799	10.408	35.553	0.05	2.2	0.8	10.309	27.330	36.120	44.525	798
1000	8.916	35.417	0.06	2.7	0.9	8.802	27.477	36.333	44.800	998
1200	7.498	35.263	0.22	9.8	3.3	7.373	27.573	36.496	45.025	1198

CDARWIN 25  
DATE: 8/13/87

STA: 116

LAT: 21° 16.0N  
TIME: 1618

LON: 60° 54.0E

SONIC DEPTH: 3318 m

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.382	36.345	---	---	---	26.382	23.930	32.190	40.097	0.008	---	2
10	26.369	36.339	---	---	---	26.367	23.931	32.191	40.099	0.040	3.26	10
20	26.374	36.340	---	---	---	26.369	23.930	32.190	40.098	0.079	3.75	20
30	26.365	36.337	---	---	---	26.358	23.931	32.191	40.100	0.119	4.26	30
40	26.294	36.317	---	---	---	26.285	23.940	32.202	40.112	0.159	4.75	40
50	26.146	36.288	---	---	---	26.135	23.965	32.231	40.145	0.199	5.25	50
60	25.225	36.236	---	---	---	25.212	24.213	32.502	40.439	0.238	5.75	60
74	24.126	36.195	---	---	---	24.110	24.515	32.834	40.798	0.287	6.23	74
100	23.347	36.396	---	---	---	23.326	24.900	33.237	41.218	0.373	6.36	100
124	22.756	36.415	---	---	---	22.731	25.087	33.440	41.436	0.445	6.07	124
150	20.739	36.073	---	---	---	20.710	25.392	33.807	41.861	0.516	5.65	149
174	19.510	35.977	0.24	10.6	4.6	19.478	25.645	34.099	42.189	0.577	5.36	173
200	18.475	35.905	0.09	4.2	1.8	18.440	25.856	34.344	42.465	0.637	5.04	199
224	18.319	36.124	0.06	2.5	1.1	18.280	26.065	34.555	42.679	0.688	4.74	223
250	17.377	36.006	0.04	2.0	0.8	17.335	26.207	34.729	42.883	0.738	4.38	249
274	16.384	35.888	0.07	3.1	1.3	16.340	26.353	34.910	43.097	0.782	4.05	273
300	16.420	36.050	0.05	2.1	0.9	16.371	26.471	35.025	43.208	0.827	3.72	299
350	14.835	35.798	0.06	2.9	1.1	14.782	26.636	35.249	43.488	0.905	3.20	349
400	14.332	35.868	0.04	1.8	0.7	14.272	26.801	35.432	43.687	0.977	2.86	399
450	13.621	35.801	0.03	1.4	0.5	13.556	26.900	35.558	43.839	1.043	2.41	449
500	13.276	35.806	0.04	1.8	0.7	13.205	26.976	35.648	43.941	1.105	2.17	499
600	12.277	35.701	0.05	2.1	0.8	12.196	27.097	35.808	44.139	1.222	1.80	599
700	11.628	35.651	0.04	1.9	0.7	11.536	27.184	35.922	44.278	1.331	1.64	699
800	10.884	35.587	0.06	2.5	0.9	10.783	27.273	36.043	44.428	1.434	1.79	799
900	10.125	35.529	0.05	2.3	0.8	10.015	27.363	36.166	44.582	1.530	1.83	898
1000	9.290	35.450	0.06	2.7	0.9	9.174	27.442	36.282	44.733	1.618	1.52	998
1200	7.869	35.302	0.17	7.6	2.6	7.740	27.551	36.456	44.968	1.779	---	1198

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
40	26.280	36.311	5.00	223.2	108.9	26.271	23.940	32.202	40.113	40
119	22.996	36.430	2.53	112.9	52.1	22.972	25.028	33.375	41.365	118
199	18.495	35.903	0.06	2.7	1.1	18.460	25.850	34.337	42.458	198
250	17.379	36.002	0.05	2.2	0.9	17.337	26.204	34.726	42.880	249
421	13.998	35.828	0.03	1.3	0.5	13.936	26.841	35.485	43.752	420
600	12.275	35.700	0.03	1.3	0.5	12.194	27.096	35.808	44.139	599
799	10.903	35.589	0.03	1.3	0.5	10.802	27.271	36.040	44.425	797
998	9.295	35.449	0.06	2.7	0.9	9.179	27.441	36.280	44.731	996
1199	7.861	35.302	0.11	4.9	1.7	7.733	27.552	36.457	44.970	1198

CDARWIN 25  
DATE: 8/13/87

STA: 117

TIME: 2050  
LAT: 21° 44.0N

LON: 60° 44.0E

SONIC DEPTH: 3106 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	26.667	36.365	---	---	---	26.667	23.855	32.107	40.008	0.008	---	2
10	26.665	36.364	---	---	---	26.663	23.855	32.108	40.009	0.040	2.46	10
20	26.667	36.363	---	---	---	26.662	23.855	32.107	40.009	0.081	2.95	20
30	26.662	36.362	---	---	---	26.655	23.857	32.109	40.010	0.121	3.43	30
40	26.656	36.361	---	---	---	26.647	23.858	32.111	40.012	0.162	3.99	40
50	26.587	36.349	---	---	---	26.576	23.872	32.126	40.029	0.202	4.58	50
60	26.456	36.331	---	---	---	26.442	23.900	32.158	40.065	0.243	5.22	60
74	24.943	36.180	---	---	---	24.927	24.257	32.555	40.499	0.297	6.05	74
100	24.034	36.192	---	---	---	24.013	24.542	32.864	40.830	0.390	6.70	100
124	22.903	36.336	---	---	---	22.878	24.984	33.335	41.328	0.467	6.74	124
150	21.260	36.231	---	---	---	21.231	25.369	33.768	41.806	0.541	6.22	149
174	19.873	36.037	0.40	18.0	7.9	19.841	25.597	34.039	42.118	0.603	5.65	173
200	18.927	35.987	0.10	4.4	1.9	18.891	25.805	34.277	42.384	0.664	5.00	199
224	18.552	36.164	0.06	2.6	1.1	18.512	26.037	34.519	42.635	0.715	4.64	223
250	18.469	36.284	0.14	6.0	2.6	18.425	26.150	34.634	42.751	0.768	4.37	249
274	17.519	36.139	0.18	8.0	3.3	17.472	26.276	34.792	42.940	0.813	3.96	273
300	17.354	36.306	0.21	9.3	3.9	17.303	26.445	34.965	43.116	0.859	3.95	299
350	17.090	36.502	0.33	14.9	6.2	17.031	26.661	35.187	43.345	0.938	3.71	349
400	14.975	36.056	0.12	5.4	2.1	14.914	26.807	35.411	43.643	1.009	2.49	399
450	14.426	36.033	0.12	5.5	2.2	14.358	26.910	35.535	43.785	1.076	2.48	449
500	13.343	35.825	0.10	4.6	1.8	13.272	26.978	35.646	43.937	1.138	2.22	499
600	12.161	35.684	0.11	4.8	1.8	12.080	27.106	35.822	44.157	1.255	1.91	599
700	11.374	35.620	0.11	4.7	1.7	11.283	27.207	35.956	44.322	1.363	1.77	699
800	10.757	35.581	0.12	5.3	1.9	10.656	27.291	36.066	44.456	1.463	1.69	799
900	10.209	35.560	0.18	7.9	2.8	10.099	27.373	36.171	44.584	1.557	1.69	898
1000	9.328	35.463	0.17	7.6	2.7	9.211	27.447	36.284	44.733	1.646	1.62	998
1200	8.076	35.329	0.28	12.7	4.3	7.946	27.541	36.437	44.940	1.806	---	1198

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
39	26.650	36.361	4.86	217.0	106.5	26.641	23.860	32.113	40.014	38
90	24.345	36.151	4.25	189.7	89.5	24.326	24.417	32.731	40.690	90
133	22.535	36.383	2.21	98.7	45.2	22.508	25.126	33.487	41.489	133
194	19.035	36.957	0.13	5.8	2.5	19.000	25.754	34.223	42.327	193
349	17.068	36.490	0.36	16.1	6.7	17.009	26.657	35.184	43.342	348
550	12.513	35.693	0.10	4.5	1.7	12.438	27.043	35.745	44.067	549
799	10.750	35.581	0.10	4.5	1.6	10.649	27.292	36.067	44.458	798
997	9.342	35.463	0.14	6.3	2.2	9.226	27.444	36.282	44.730	996
1200	8.069	35.330	0.28	12.5	4.3	7.939	27.543	36.439	44.942	1198

CDARWIN 25  
DATE: 8/14/87

STA: 118

TIME: 0139

LAT: 22° 11.0N

LON: 60° 37 OE

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	D	N2	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	dynm	cph	m
2	26.667	36.384	---	---	---	26.667	23.869	32.121	40.022	0.008	---	2
10	26.668	36.384	---	---	---	26.666	23.870	32.122	40.023	0.040	3.86	10
20	26.673	36.384	---	---	---	26.668	23.869	32.121	40.021	0.081	4.41	20
30	26.673	36.384	---	---	---	26.666	23.870	32.122	40.022	0.121	4.95	30
40	26.673	36.385	---	---	---	26.664	23.871	32.123	40.024	0.161	5.51	40
50	26.442	36.385	---	---	---	26.431	23.945	32.202	40.109	0.202	6.09	50
60	24.737	36.202	---	---	---	24.724	24.336	32.638	40.587	0.239	6.52	60
74	23.949	36.293	---	---	---	23.933	24.642	32.965	40.932	0.288	6.96	74
100	22.790	36.407	---	---	---	22.770	25.069	33.422	41.417	0.368	6.78	100
124	21.165	36.193	---	---	---	21.141	25.365	33.766	41.807	0.435	6.08	124
150	19.840	36.041	---	---	---	19.812	25.607	34.050	42.130	0.501	5.44	150
174	19.409	36.156	0.19	8.3	3.6	19.377	25.809	34.264	42.355	0.557	5.12	173
200	18.387	36.066	0.05	2.3	1.0	18.352	26.002	34.491	42.613	0.613	4.87	159
224	17.550	36.070	0.04	1.6	0.7	17.512	26.213	34.729	42.877	0.660	4.64	223
250	16.961	36.069	0.09	3.8	1.6	16.919	26.355	34.890	43.056	0.707	4.31	249
274	16.387	36.081	0.14	6.4	2.6	16.343	26.501	35.056	43.240	0.748	4.02	273
300	16.447	36.262	0.18	8.0	3.3	16.398	26.627	35.178	43.358	0.788	3.58	299
350	15.360	36.125	0.11	5.0	2.0	15.305	26.773	35.363	43.580	0.861	2.79	349
400	14.359	35.961	0.09	4.2	1.7	14.299	26.867	35.495	43.749	0.928	2.48	399
450	13.939	35.947	0.05	2.4	0.9	13.873	26.947	35.591	43.860	0.991	2.17	449
500	13.304	35.868	0.04	1.9	0.7	13.233	27.019	35.688	43.980	1.052	1.96	499
600	12.284	35.724	0.04	1.7	0.6	12.203	27.113	35.824	44.154	1.166	1.77	599
700	11.433	35.632	0.03	1.5	0.6	11.342	27.206	35.952	44.316	1.273	1.90	699
800	10.577	35.563	0.03	1.3	0.5	10.477	27.309	36.091	44.489	1.373	1.80	799
900	9.817	35.501	0.02	1.0	0.3	9.709	27.393	36.209	44.638	1.464	1.57	899
1000	9.206	35.442	0.02	0.9	0.3	9.090	27.451	36.294	44.748	1.551	1.54	998
1200	7.707	35.283	0.13	5.7	1.9	7.580	27.559	36.472	44.991	1.709	0.96	1198
1202	7.704	35.282	0.13	5.7	1.9	7.577	27.559	36.472	44.992	1.711	---	1200

PR	T	S	O2	O2	O2-SAT	THETA	SIG-0	SIG-2	SIG-4	Z
dbar	C	PSU	ml/l	uM/kg	pct	C	kg/m3	kg/m3	kg/m3	m
19	26.673	36.384	4.64	207.1	101.8	26.669	23.869	32.121	40.021	19
98	22.844	36.409	2.44	108.9	50.1	22.824	25.055	33.406	41.400	98
168	19.433	36.101	0.19	8.5	3.7	19.402	25.760	34.215	42.306	168
299	16.446	36.249	0.17	7.6	3.1	16.397	26.617	35.168	43.348	298
398	14.356	35.951	0.13	5.8	2.3	14.297	26.860	35.488	43.742	397
599	12.274	35.722	0.04	1.8	0.7	12.193	27.113	35.825	44.156	598
799	10.580	35.563	0.06	2.7	1.0	10.481	27.308	36.091	44.488	797
999	9.223	35.442	0.05	2.2	0.8	9.107	27.447	36.290	44.744	997
1199	7.714	35.283	0.16	7.1	2.4	7.587	27.558	36.471	44.990	1198

CDARWIN 25  
DATE: 8/14/87

STA: 119

TIME: 0555

LAT: 22° 41.0N

LON: 60° 27' 0E

SONIC DEPTH: 2991 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	P dynm	N2 cph	Z m
2	23.583	36.418	---	---	---	23.583	24.841	33.171	41.146	0.006	---	2
10	23.546	36.418	---	---	---	23.543	24.853	33.184	41.160	0.031	4.66	10
20	23.382	36.410	---	---	---	23.378	24.895	33.231	41.210	0.062	5.06	20
30	22.658	36.391	---	---	---	22.652	25.091	33.447	41.446	0.091	5.33	30
40	21.061	36.250	---	---	---	21.053	25.433	33.836	41.879	0.118	5.42	40
50	20.398	36.163	---	---	---	20.389	25.547	33.971	42.033	0.143	5.45	50
60	19.709	36.122	---	---	---	19.698	25.699	34.144	42.226	0.167	5.54	60
74	19.285	36.144	---	---	---	19.272	25.827	34.285	42.380	0.198	5.77	74
100	18.805	36.225	---	---	---	18.787	26.014	34.486	42.593	0.253	5.42	100
124	18.450	36.407	---	---	---	18.428	26.244	34.726	42.842	0.300	5.07	124
150	16.877	36.236	---	---	---	16.852	26.500	35.035	43.202	0.344	4.47	150
174	15.536	36.260	0.06	2.8	1.2	16.508	26.600	35.147	43.324	0.380	3.58	174
200	16.310	36.257	0.05	2.5	1.0	16.278	26.652	35.206	43.391	0.419	2.64	200
224	16.211	36.251	0.05	2.3	0.9	16.175	26.671	35.229	43.417	0.453	2.18	224
250	15.995	36.233	0.05	2.1	0.8	15.955	26.708	35.274	43.469	0.490	2.14	250
274	15.720	36.206	0.05	2.0	0.8	15.677	26.751	35.327	43.531	0.524	2.24	274
300	15.500	36.181	0.05	2.0	0.8	15.453	26.782	35.367	43.578	0.559	2.31	299
350	14.730	36.080	0.04	2.0	0.8	14.677	26.877	35.490	43.729	0.625	2.13	349
400	14.215	36.001	0.04	2.0	0.8	14.156	26.928	35.562	43.819	0.688	2.06	399
450	13.597	35.931	0.06	2.6	1.0	13.532	27.006	35.663	43.943	0.749	2.05	449
500	12.984	35.834	0.05	2.3	0.9	12.914	27.057	35.739	44.043	0.806	1.86	499
600	11.895	35.678	0.05	2.2	0.8	11.815	27.152	35.878	44.224	0.917	1.85	599
700	11.031	35.599	0.05	2.1	0.8	10.942	27.253	36.011	44.396	1.019	1.76	699
800	10.313	35.542	0.05	2.2	0.8	10.215	27.338	36.132	44.541	1.115	1.80	799
900	9.468	35.467	0.05	2.2	0.8	9.363	27.425	36.256	44.699	1.203	1.62	899
1000	8.597	35.380	0.06	2.8	1.0	8.486	27.498	36.369	44.849	1.285	1.51	999
1198	7.267	35.237	0.22	10.0	3.3	7.144	27.586	36.520	45.058	1.433	---	1197

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
1	23.752	36.419	3.35	149.6	69.9	23.752	24.792	33.117	41.087	---
6	23.575	36.418	3.27	146.0	68.1	23.574	24.843	33.174	41.148	6
16	23.471	36.412	2.99	133.5	62.1	23.468	24.870	33.204	41.181	16
28	22.862	36.386	2.26	100.9	46.4	22.856	25.028	33.379	41.372	28
33	21.997	36.371	1.41	62.9	28.5	21.990	25.264	33.639	41.655	33
130	18.454	36.446	0.27	12.1	5.1	18.431	26.273	34.754	42.870	129
200	16.312	36.251	0.03	1.3	0.5	16.280	26.646	35.201	43.385	199
599	11.915	35.678	0.02	0.9	0.3	11.835	27.148	35.874	44.219	598
1200	7.236	35.238	0.19	8.5	2.8	7.173	27.582	36.515	45.052	---



CDARWIN 25  
DATE 8/14/87

STA: 120

TIME: 1122

LAT: 22° 56' 0N

LON: 59° 56' 0E

SONIC DEPTH: 2806 m

PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	D dynm	N2 cph	Z m
2	28.178	36.634	---	---	---	28.177	23.567	31.781	39.646	0.009	---	2
20	19.699	36.147	---	---	---	19.695	25.718	34.164	42.246	0.066	4.18	20
30	19.343	36.143	---	---	---	19.338	25.809	34.265	42.357	0.088	4.06	30
40	19.004	36.167	---	---	---	18.997	25.916	34.382	42.484	0.109	4.04	40
50	18.789	36.198	---	---	---	18.780	25.995	34.468	42.576	0.130	4.03	50
60	18.661	36.238	---	---	---	18.650	26.068	34.535	42.646	0.150	4.10	60
74	18.580	36.300	---	---	---	18.567	26.127	34.606	42.719	0.177	4.26	74
100	18.072	36.336	---	---	---	18.055	26.284	34.778	42.906	0.225	4.35	100
124	17.958	36.508	---	---	---	17.937	26.445	34.941	43.070	0.265	4.12	124
150	17.554	36.549	---	---	---	17.528	26.577	35.086	43.227	0.306	3.75	150
174	17.339	36.604	0.28	12.6	5.3	17.310	26.672	35.187	43.335	0.341	3.42	174
200	16.976	36.566	0.26	11.8	4.9	16.943	26.732	35.260	43.419	0.377	3.16	200
224	16.471	36.514	0.26	11.8	4.8	16.434	26.813	35.358	43.534	0.410	3.01	224
250	15.349	36.291	0.23	10.4	4.2	15.310	26.900	35.487	43.703	0.443	2.71	250
274	14.542	36.107	0.18	7.9	3.1	14.501	26.937	35.556	43.800	0.472	2.39	274
300	14.137	36.031	0.08	3.4	1.3	14.093	26.965	35.600	43.860	0.503	2.11	300
350	13.384	35.909	0.05	2.3	0.9	13.334	27.030	35.695	43.982	0.560	1.93	349
400	12.710	35.795	0.05	2.3	0.9	12.655	27.079	35.771	44.085	0.616	1.82	399
450	12.135	35.712	0.05	2.3	0.9	12.075	27.129	35.845	44.180	0.669	1.70	449
500	11.771	35.669	0.05	2.2	0.8	11.705	27.166	35.897	44.247	0.721	1.66	499
600	11.011	35.598	0.05	2.1	0.8	10.935	27.254	36.017	44.396	0.820	1.77	599
700	10.305	35.542	0.04	1.9	0.7	10.220	27.338	36.132	44.540	0.913	1.54	699
800	9.612	35.482	0.04	1.8	0.6	9.518	27.411	36.235	44.672	1.000	1.67	799
900	8.858	35.408	0.04	1.9	0.7	8.757	27.477	36.335	44.804	1.081	1.47	899
1000	8.125	35.331	0.08	3.7	1.3	8.017	27.532	36.424	44.925	1.157	1.41	999
1200	6.928	35.205	0.28	12.6	4.2	6.808	27.607	36.557	45.111	1.298	---	1199

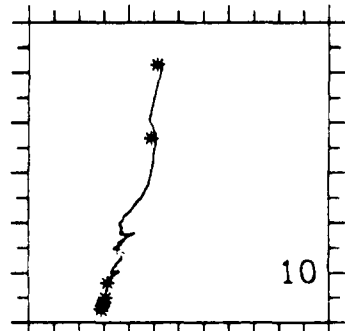
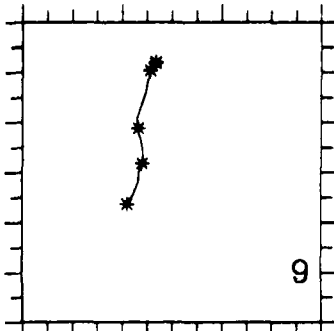
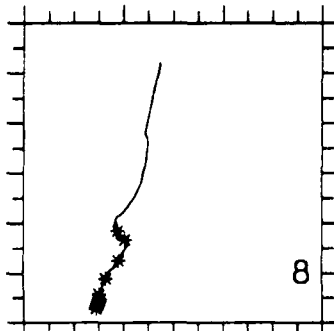
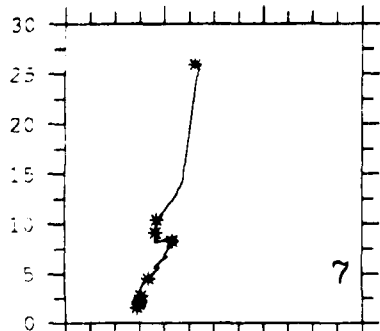
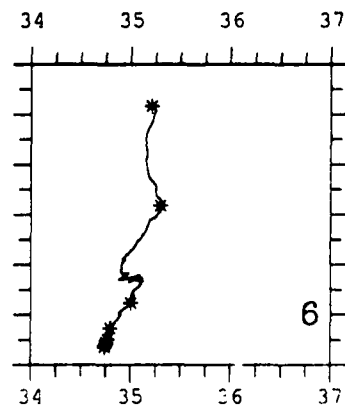
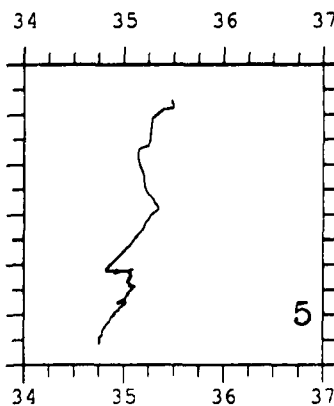
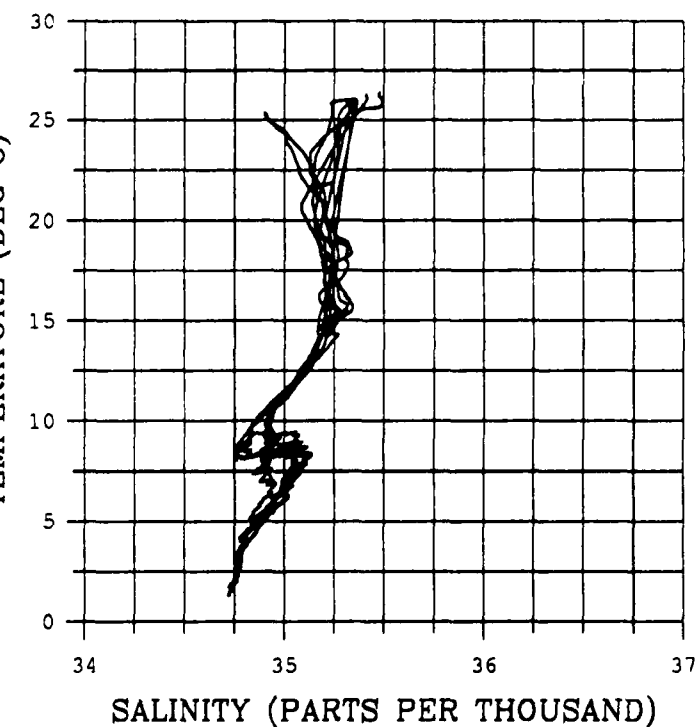
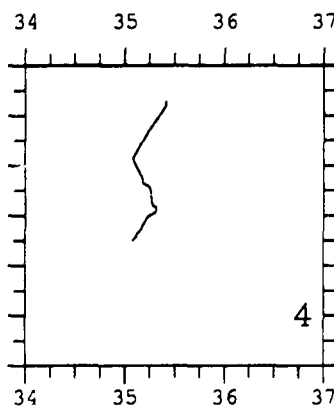
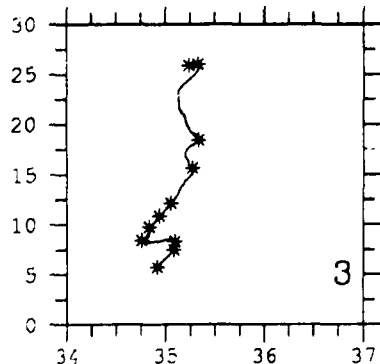
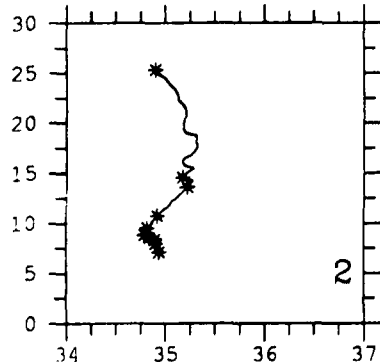
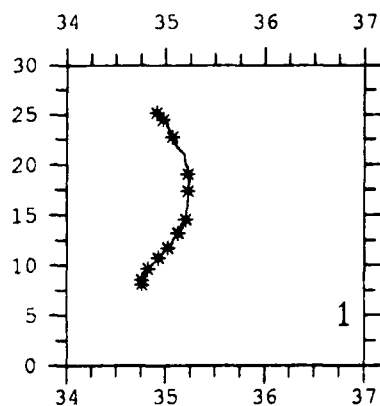
PR dbar	T C	S PSU	O2 ml/l	O2 uM/kg	O2-SAT pct	THETA C	SIG-0 kg/m3	SIG-2 kg/m3	SIG-4 kg/m3	Z m
0	28.093	36.622	6.15	274.6	138.3	28.093	23.587	31.802	39.669	---
29	19.365	36.139	0.03	1.3	0.6	19.360	25.800	34.256	42.348	29
169	17.443	36.607	0.29	12.9	5.4	17.414	26.649	35.161	43.305	169
199	16.985	36.571	0.27	12.1	5.0	16.952	26.733	35.261	43.420	199
399	12.712	35.796	0.05	2.2	0.8	12.657	27.079	35.772	44.085	398
598	11.003	35.599	0.05	2.2	0.8	10.933	27.255	36.018	44.398	598
799	9.606	35.482	0.05	2.2	0.8	9.512	27.412	36.236	44.673	798
999	8.143	35.330	0.14	6.3	2.1	8.035	27.528	36.420	44.919	998
1199	6.922	35.207	0.27	12.1	4.0	6.802	27.610	36.560	45.114	1198

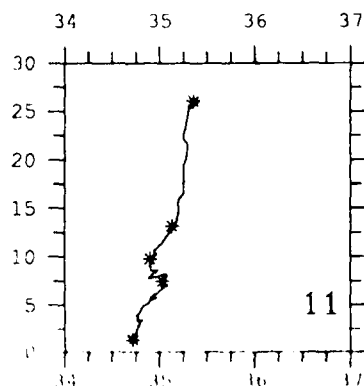
# **MASAI II**

## **CTD Data Plots**

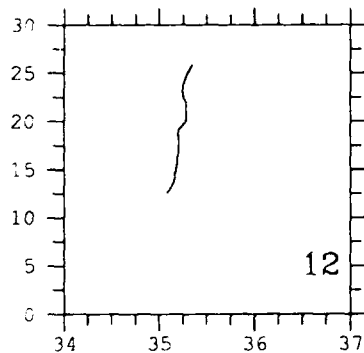
# MASAI2 T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

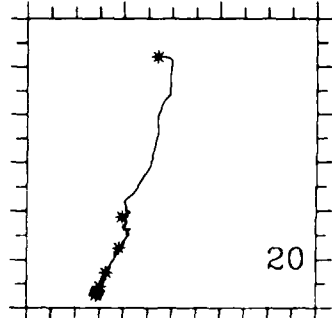
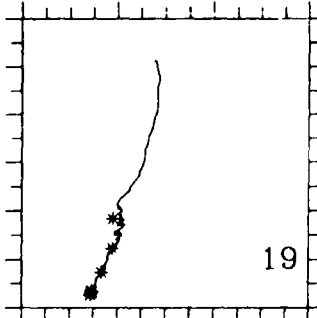
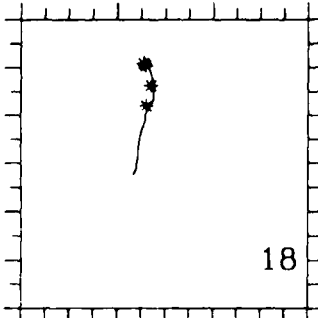
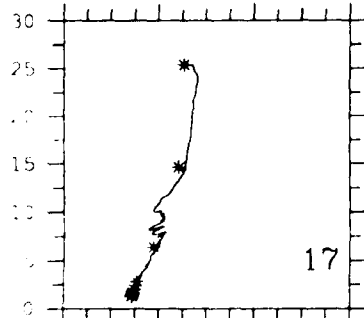
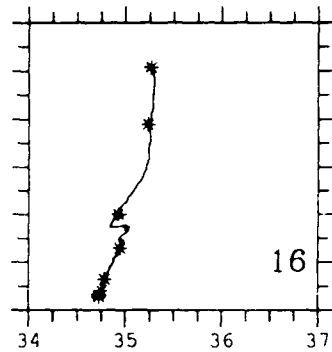
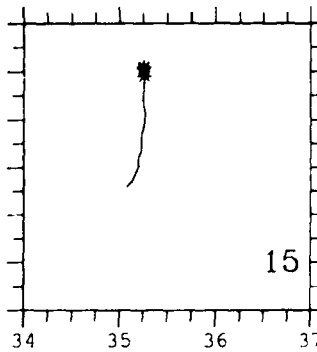
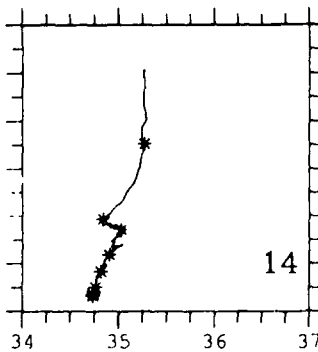
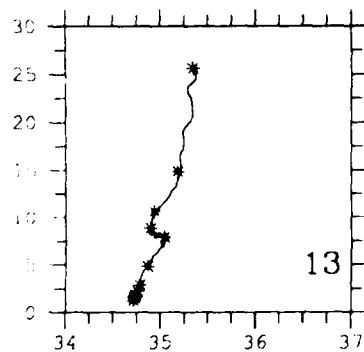
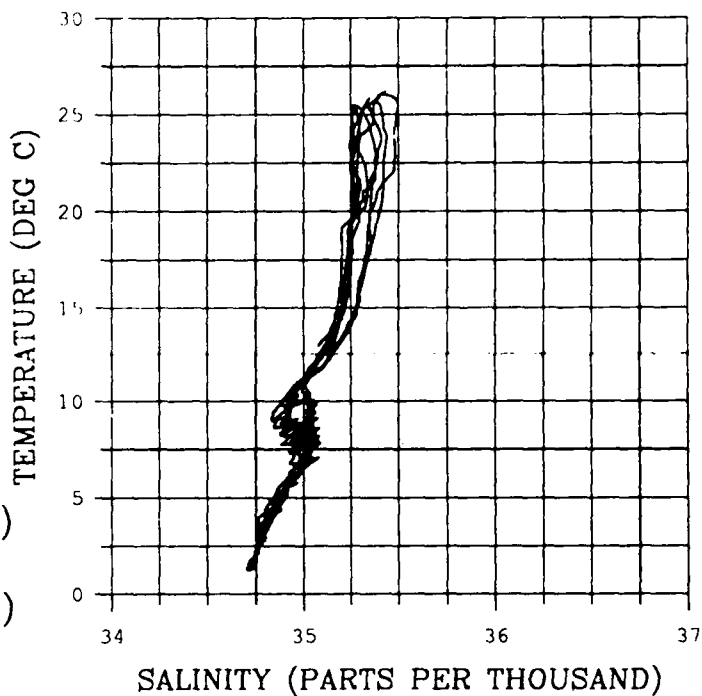


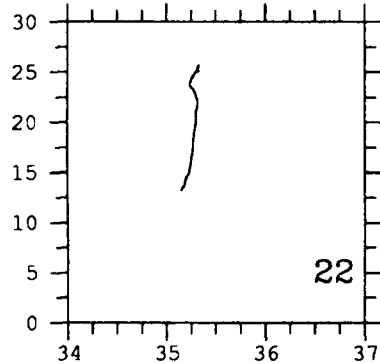
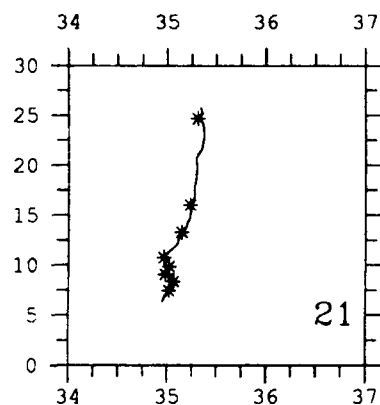


MASAI2  
T/S



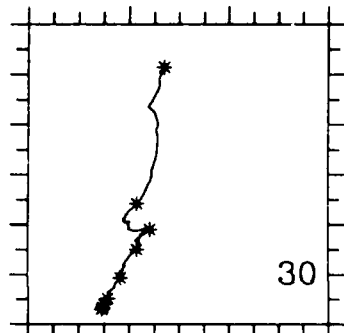
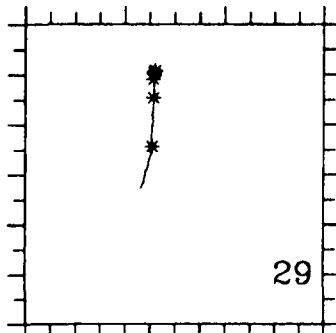
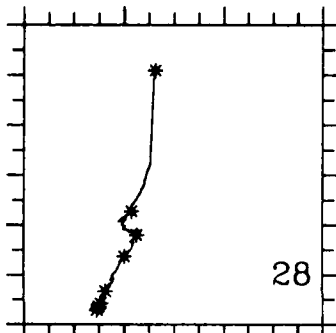
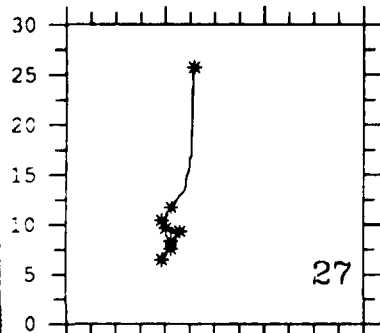
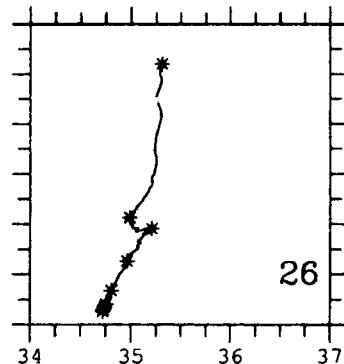
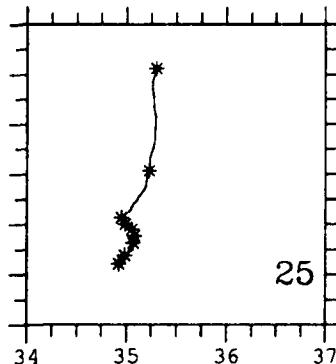
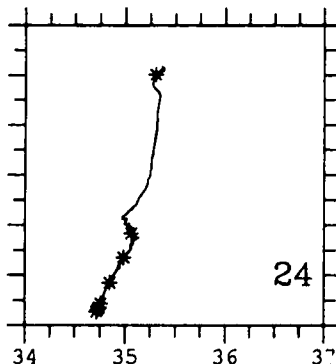
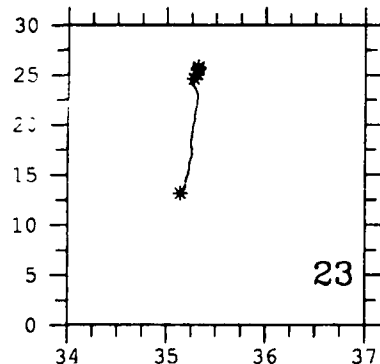
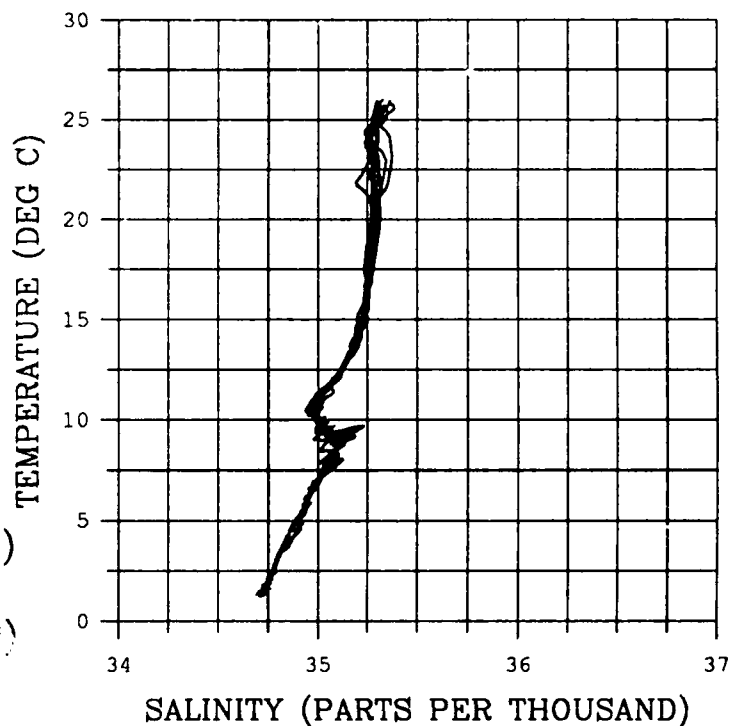
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

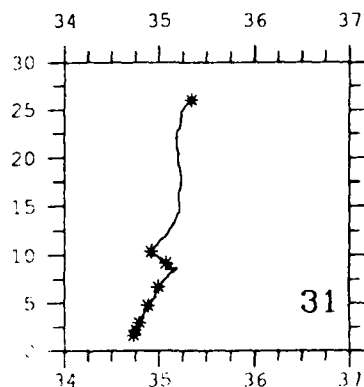




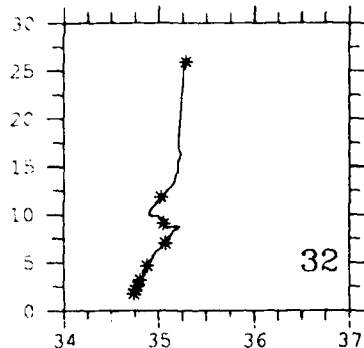
MASAI2  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

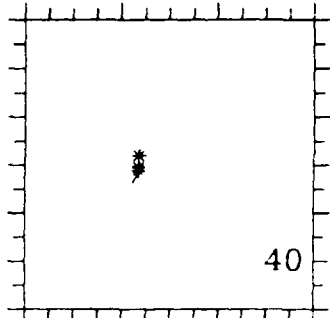
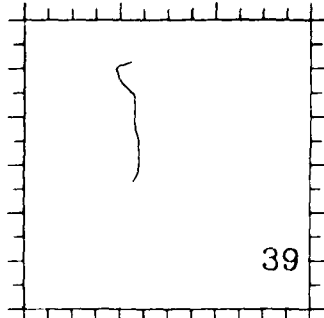
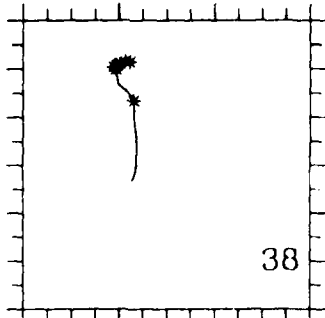
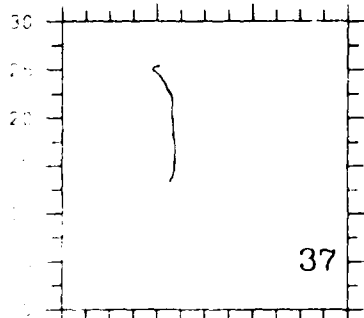
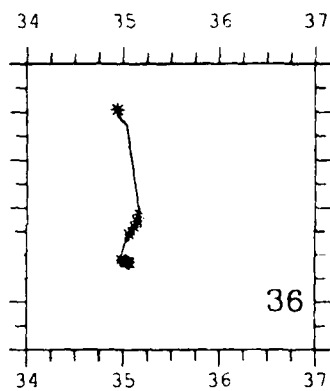
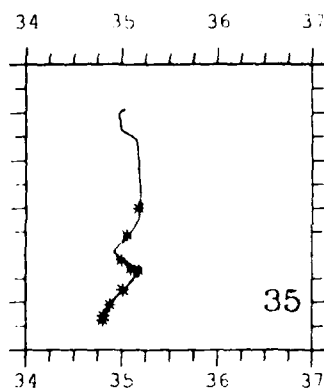
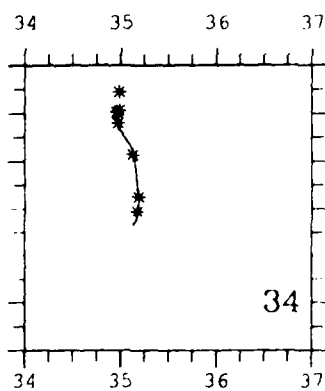
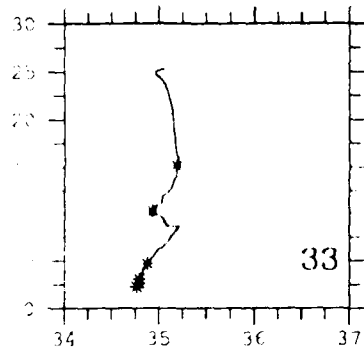
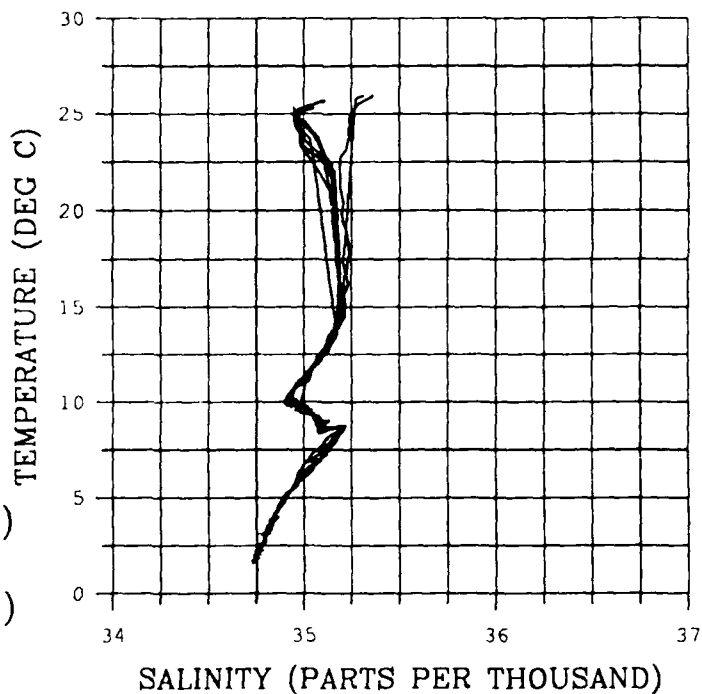




MASAI2  
T/S



CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

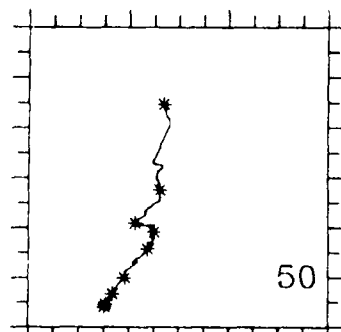
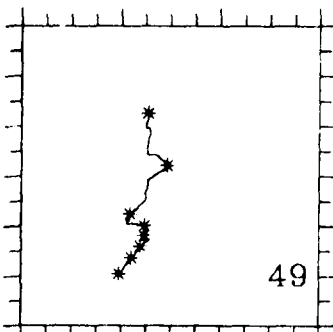
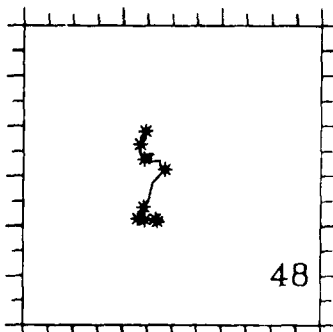
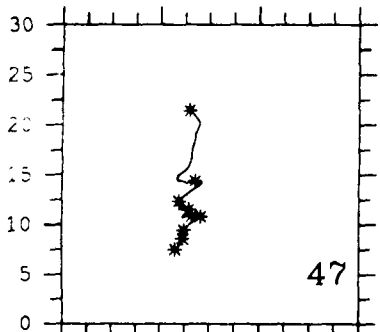
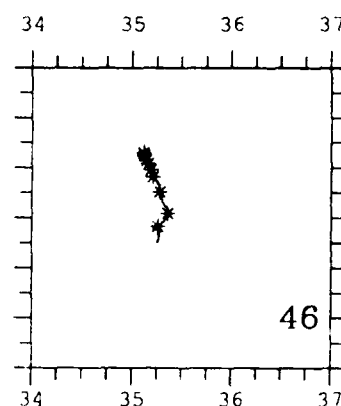
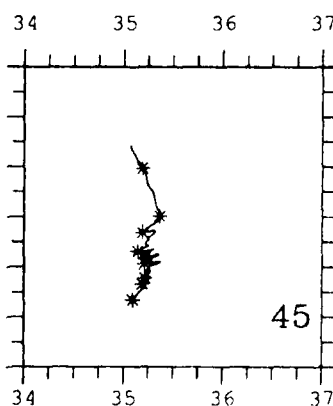
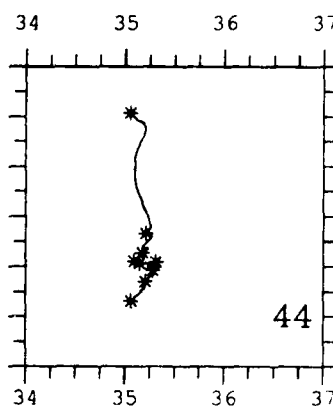
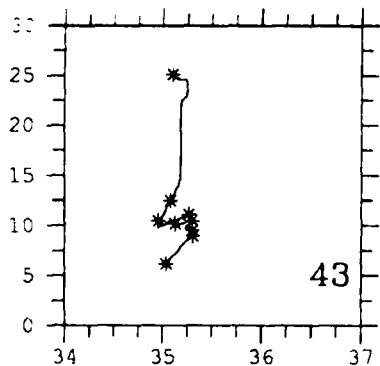
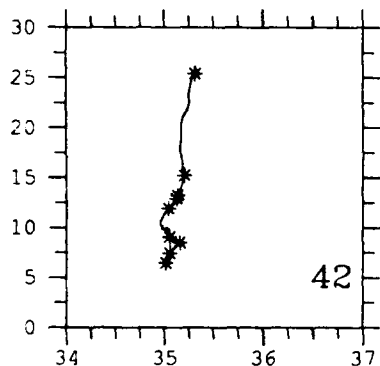
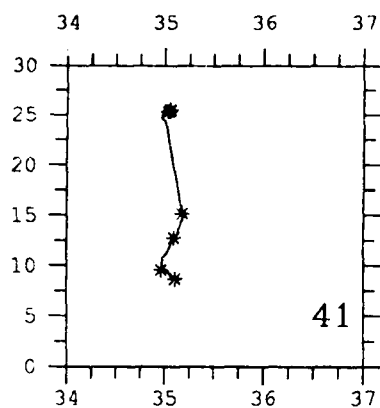


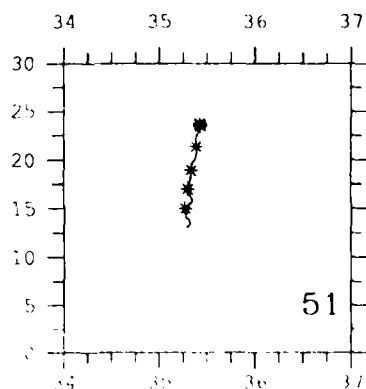
MASAI2  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

TEMPERATURE (DEG C)

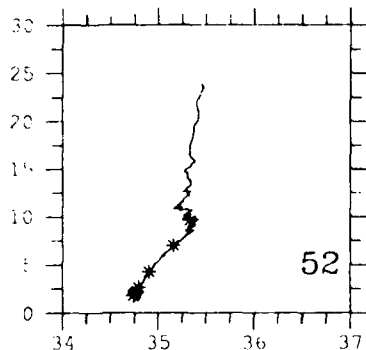
SALINITY (PARTS PER THOUSAND)





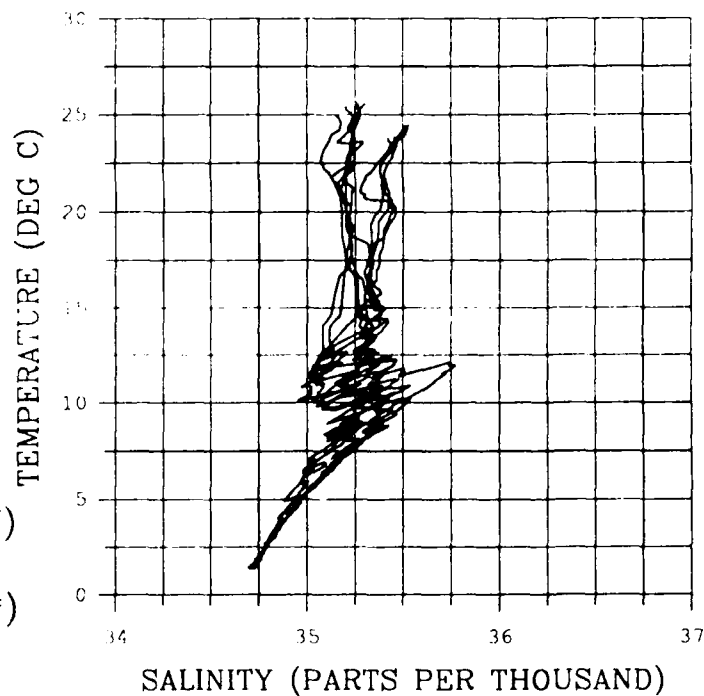
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MASAI2  
T/S

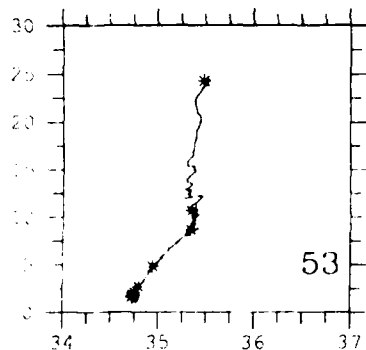


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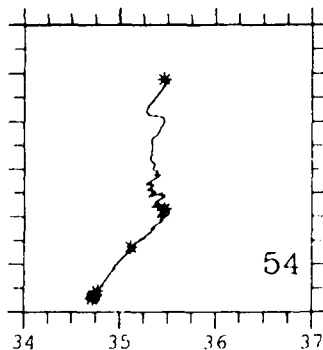
CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)



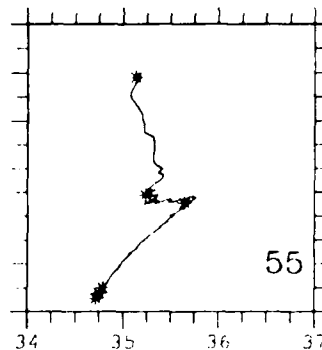
SALINITY (PARTS PER THOUSAND)



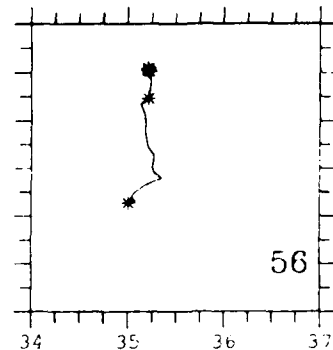
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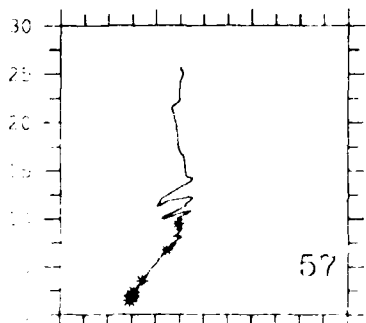
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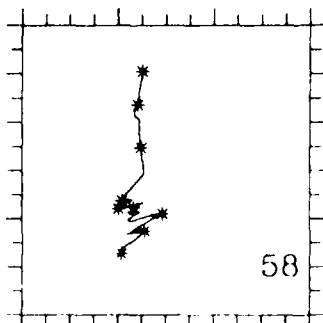
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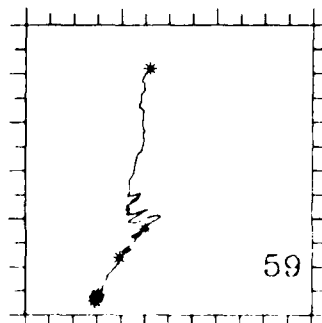
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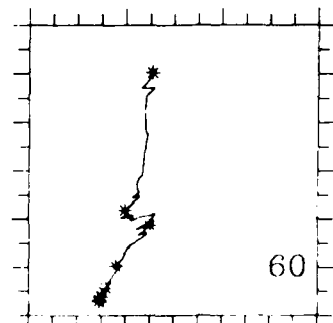
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60

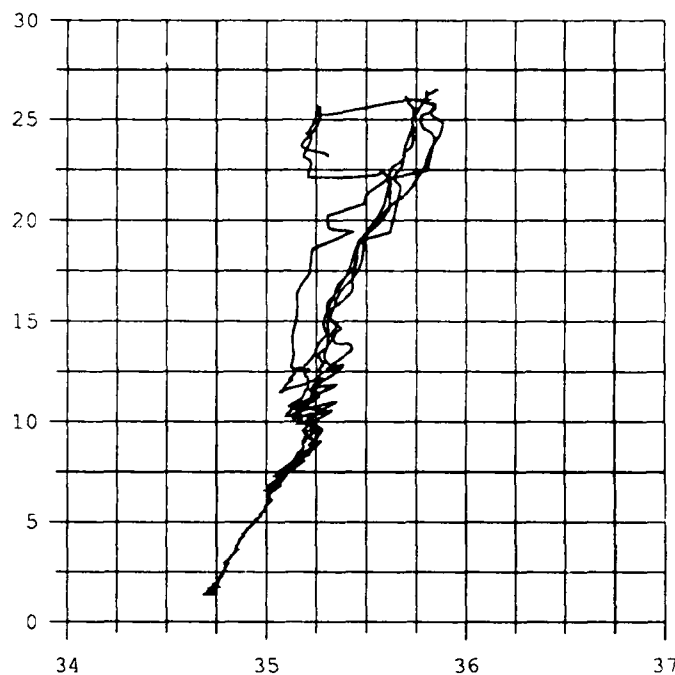
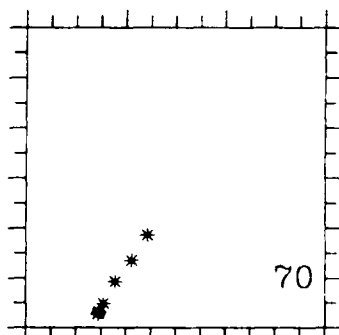
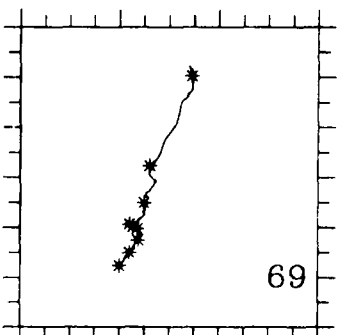
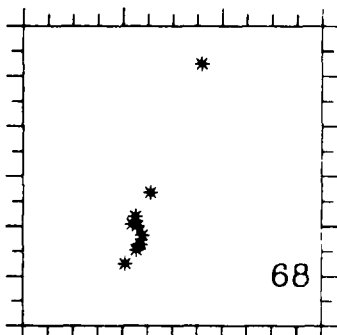
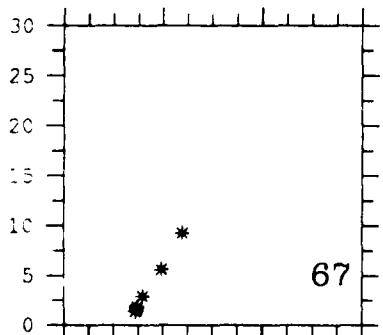
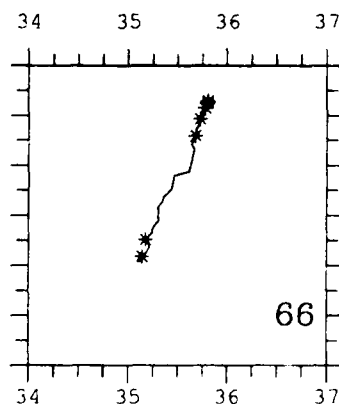
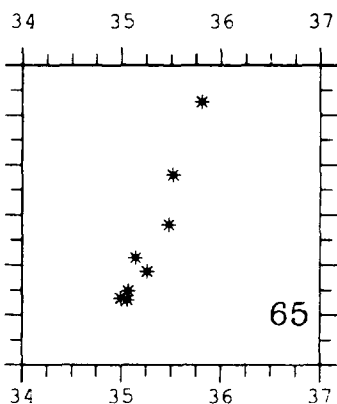
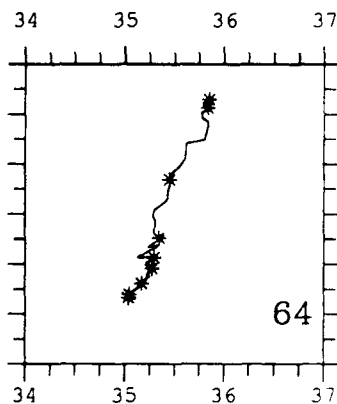
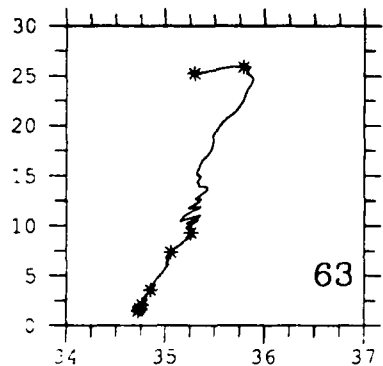
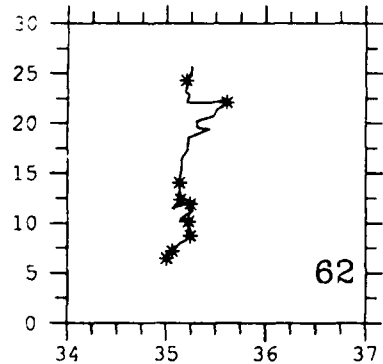
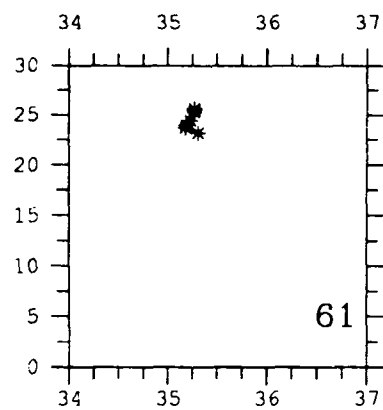


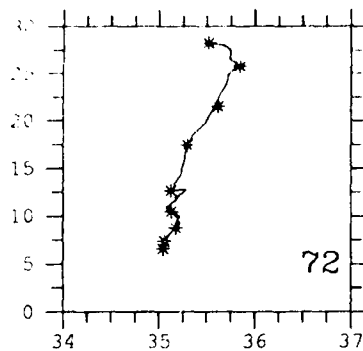
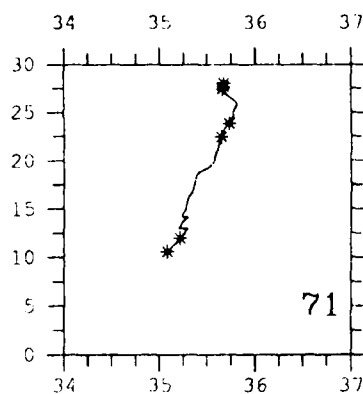
MASAI2  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

TEMPERATURE (DEG C)

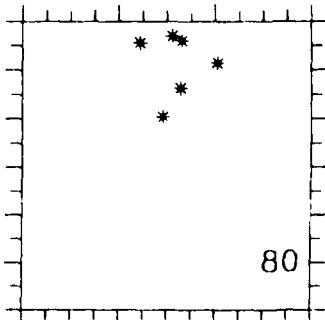
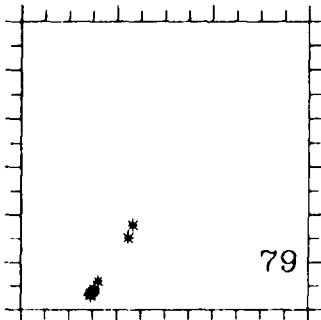
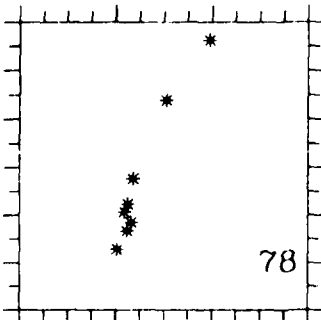
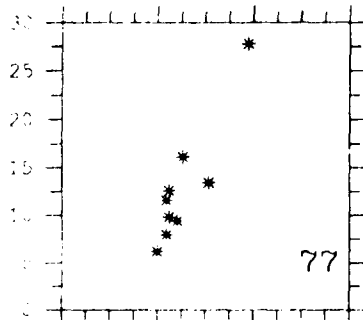
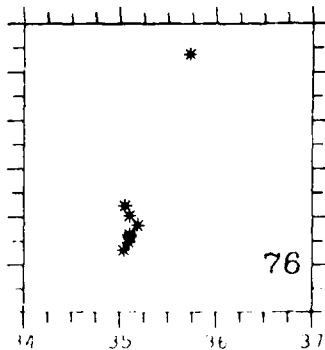
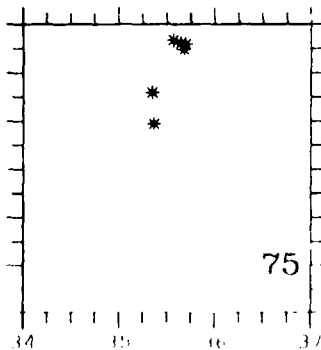
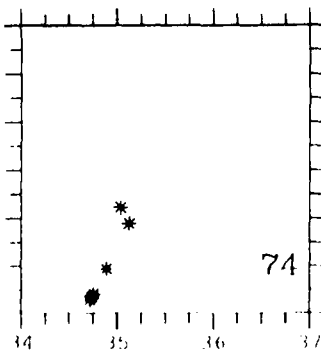
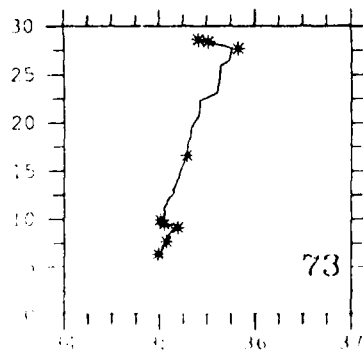
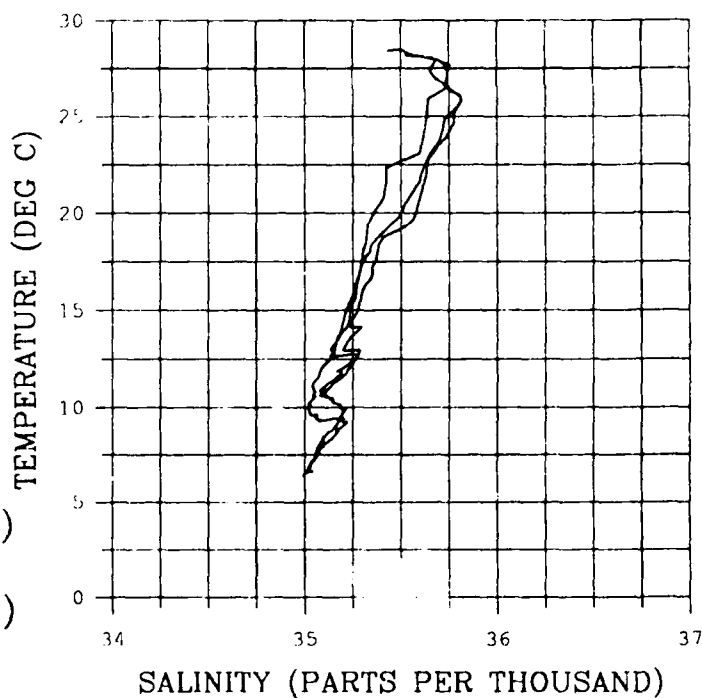
SALINITY (PARTS PER THOUSAND)





MASAI2  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

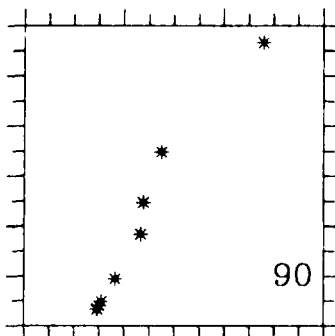
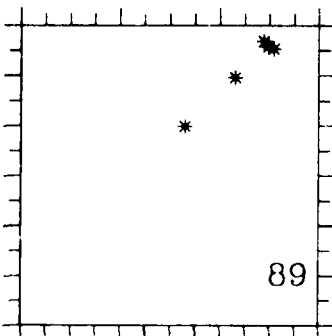
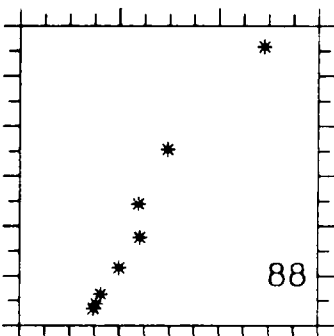
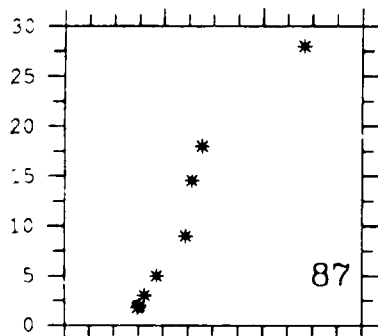
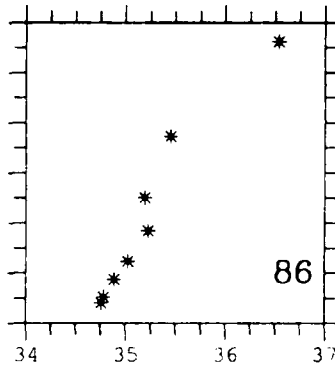
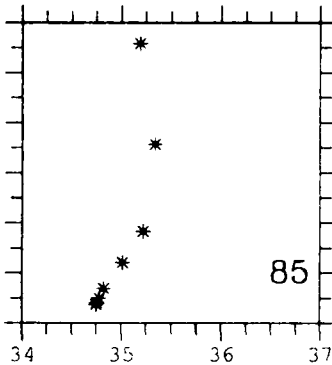
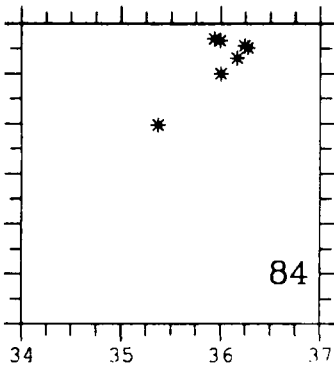
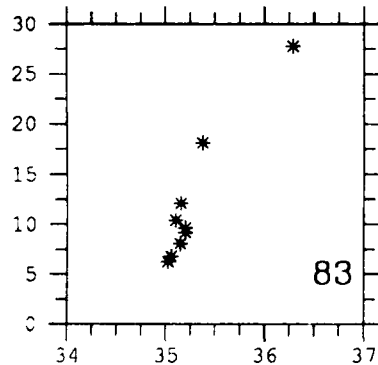
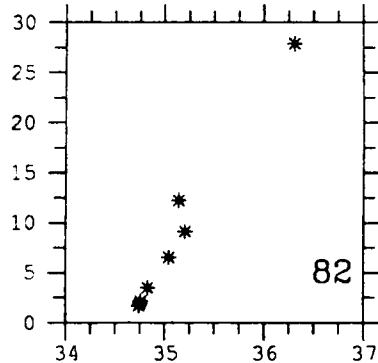
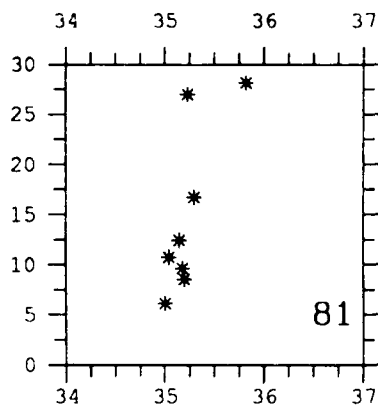


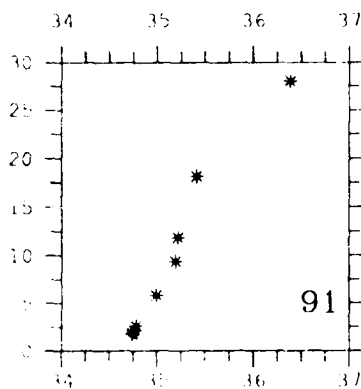
# MASAI2 T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

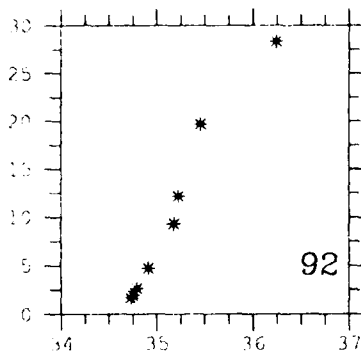
TEMPERATURE (DEG C)

SALINITY (PARTS PER THOUSAND)

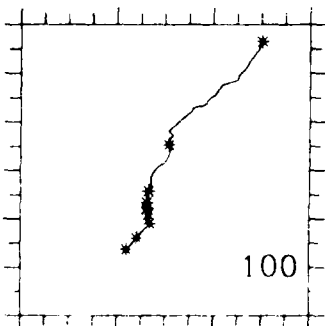
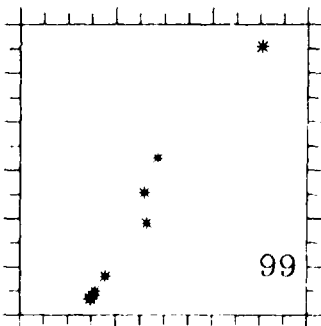
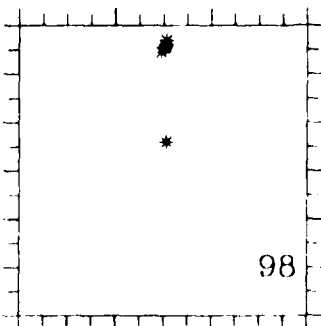
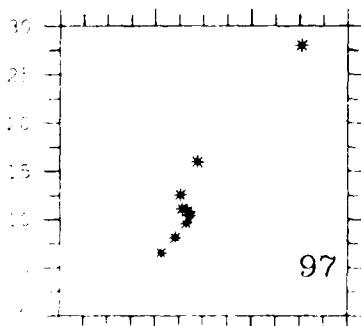
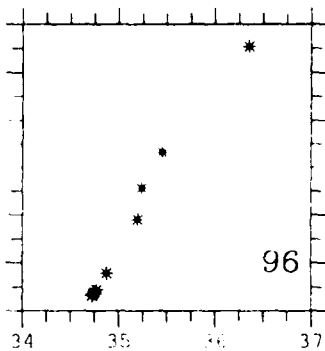
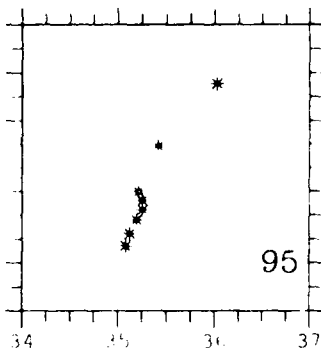
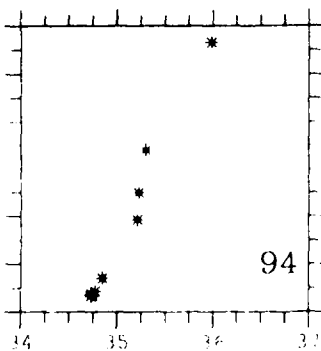
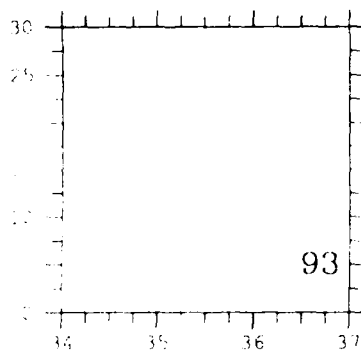
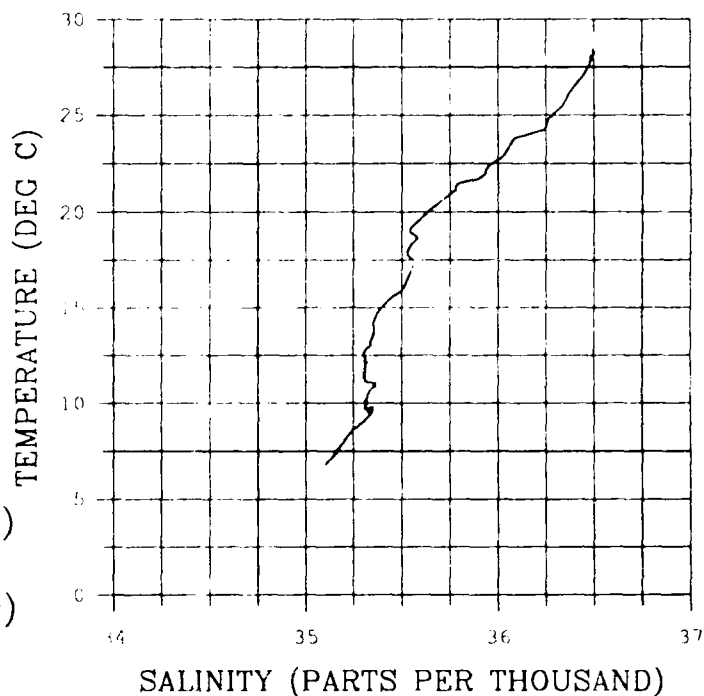




MASAI2  
T/S



CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

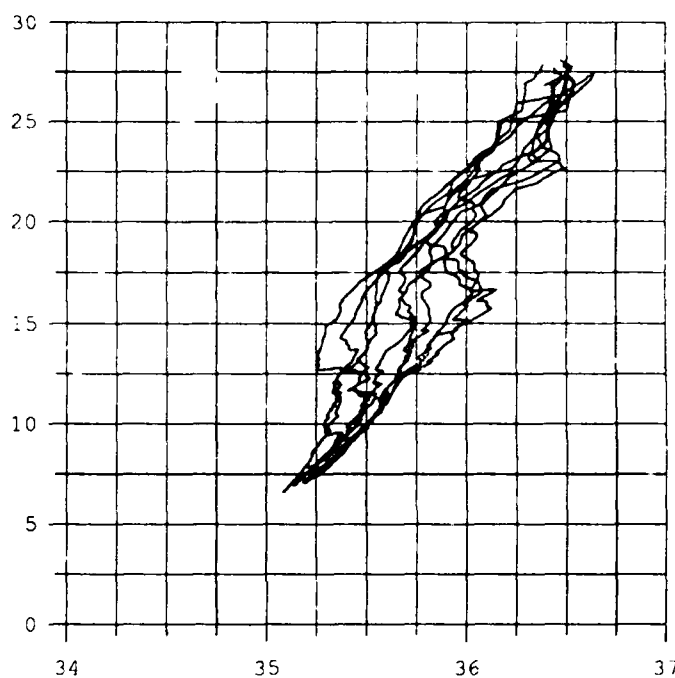
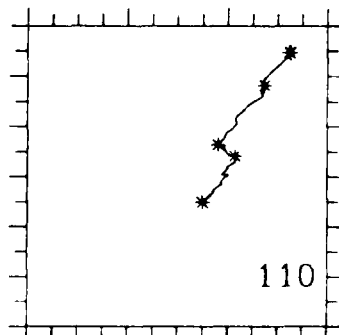
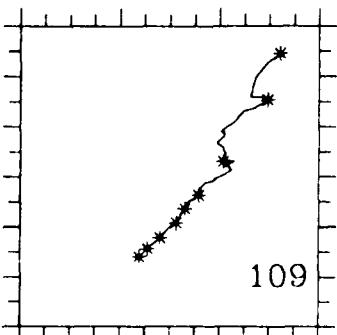
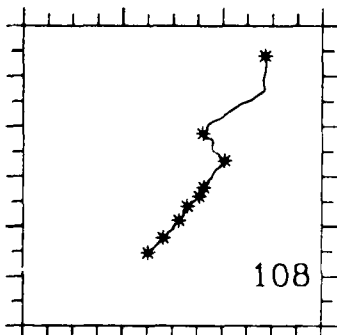
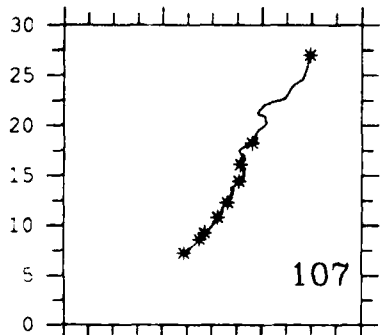
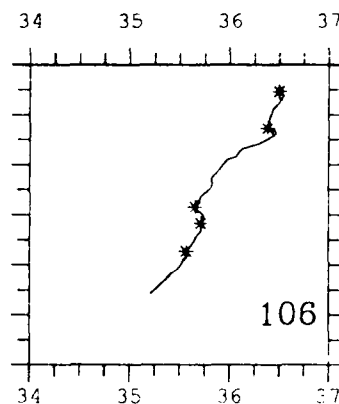
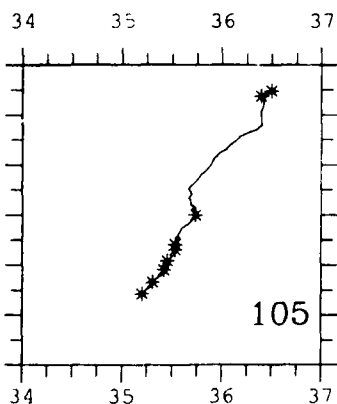
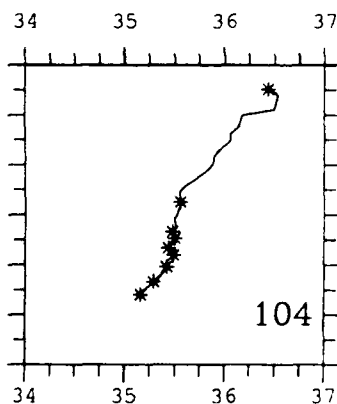
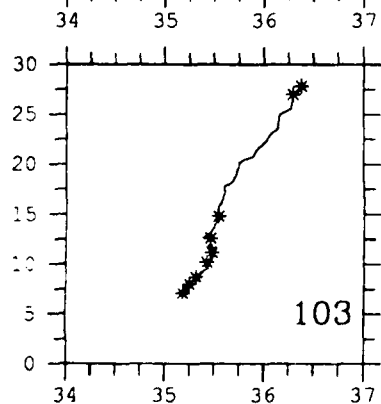
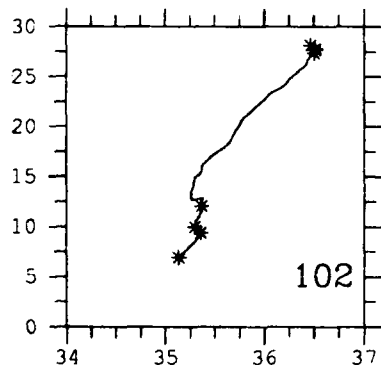
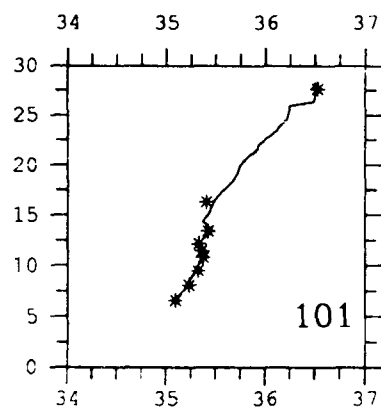


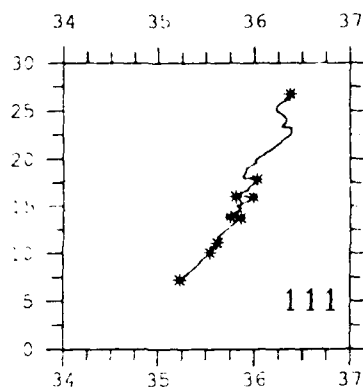
MASAI2  
T/S

CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)

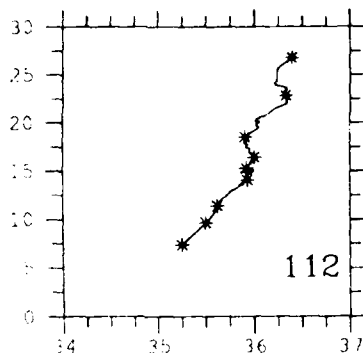
TEMPERATURE (DEG C)

SALINITY (PARTS PER THOUSAND)

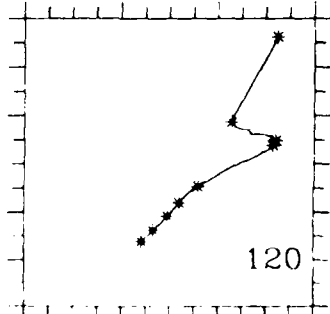
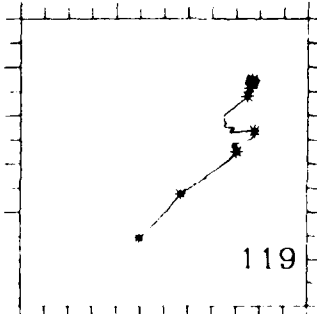
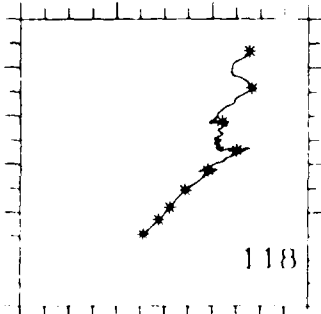
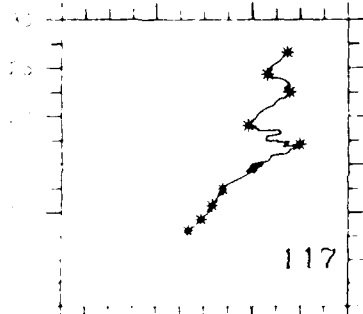
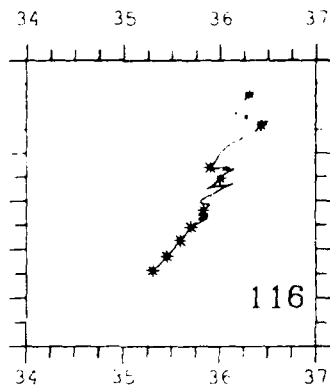
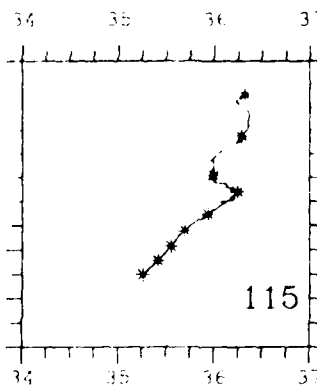
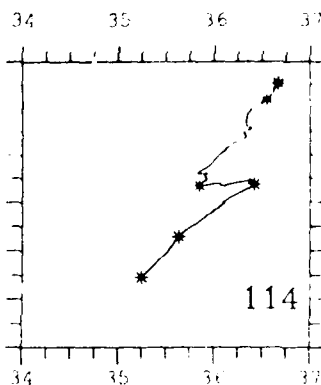
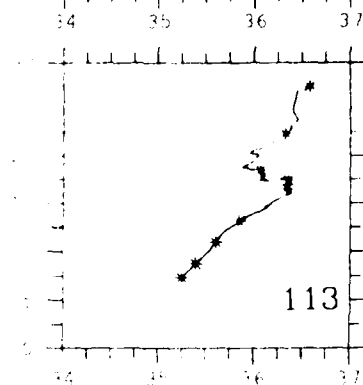
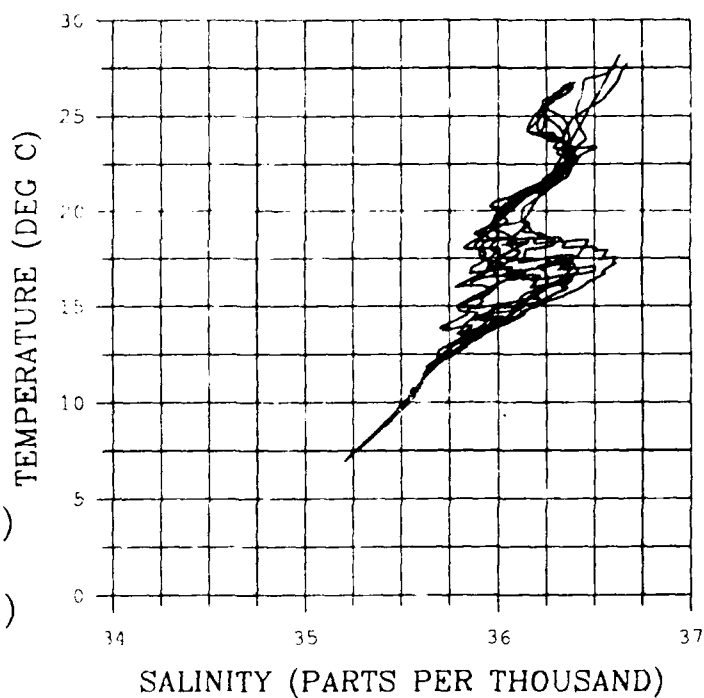




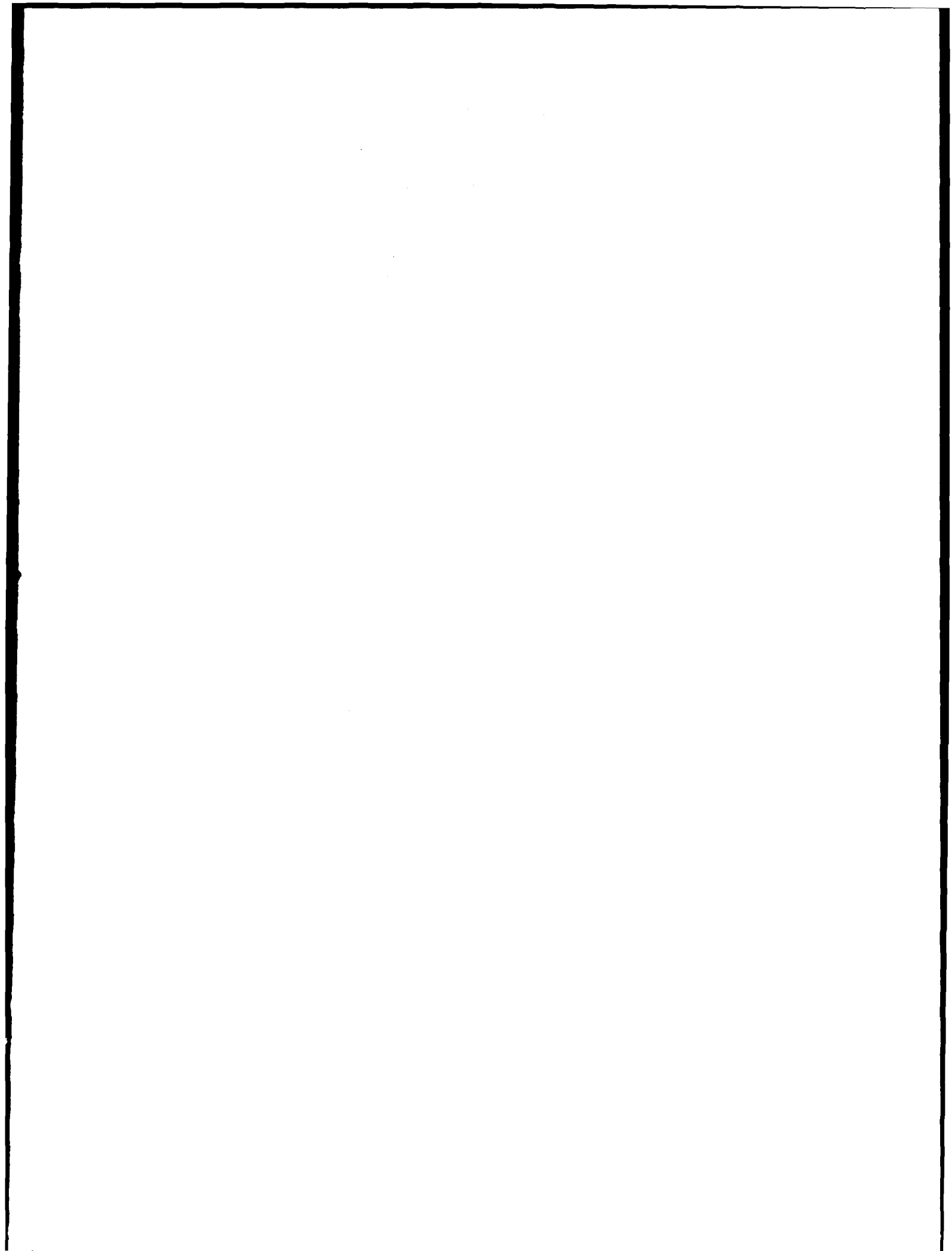
MASAI2  
T/S



CTD DATA (2-M)  
PLUS  
BOTTLE DATA (\*)



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7/10/90

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## Correction to the MASAI Data Report of June 1989

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June 11, 1990

Please be advised that in *CTD and Bottle Data from MASAI* (June 1989), for all stations reported, the units of the column of data headed as O<sub>2</sub>, uM/kg is incorrect. The correct units for the data that follows the header is uM/l. For those who wish to compute uM/kg, it may be computed as follows:

$$O_2\left[\frac{\mu\text{moles}}{\text{kg}}\right] = O_2\left[\frac{\text{ml}}{\text{l}}\right] \cdot \frac{1}{\text{density of seawater}\left[\frac{\text{kg}}{\text{l}}\right]} \cdot \frac{10^3 \mu\text{moles}}{22.413 \text{ ml}}$$

[Note that this calculation is equivalent to dividing the data under the (new) heading O<sub>2</sub>, uM/l by the data under the heading SIG-O, kg/m<sup>3</sup> (actually (1000+value)/1000).]

For example, for station 1 of the MASAI I data, at the 100 decibars level, the oxygen is reported as 0.07 ml/l, with a sigma-theta of 26.165 kg/m<sup>3</sup>. The oxygen in uM/l was reported as 3.3. So to compute the oxygen in uM/kg:

$$O_2\left[\frac{\mu\text{moles}}{\text{kg}}\right] = 0.07 \frac{\text{ml}}{\text{l}} \cdot \frac{1}{((1000 + 26.165)/1000) \frac{\text{kg}}{\text{l}}} \cdot \frac{10^3 \mu\text{moles}}{22.413 \text{ ml}} = 3.04 \frac{\mu\text{moles}}{\text{kg}}$$

We hope that this error has not inconvenienced you.